

1 GCGGC GGCTC AGGGAGCTGG AGCCTCAACA GCCTCCAGCG AGCCC GGGAC
 51 CCGCCGACAG CCCGAGAAC CAGCCGAAGG ACGCGGGCG GGGTCGCCGC
 101 CGCCGCCACG GGGTGCCTCC TCCCTCCCGC CCAAGTCCGG CCACCTGGTC
 151 TTCCCCTCGG CCCCGGCCGT CTCAGACTCA TCAAAATGAA ACCAGGAGGC
 201 TTTTGGCTGC ATCTCACACT GCTCGGAGCC TCCCTGCCGG CTGCGCTGGG
 251 ATGGATGGAC CCAGGAACCA GCAGAGGCC GGATGTGGT GTGGGGAGT
 301 CACAGGCAGA GGAGCCCAGA AGCTTTGAAG TCACAAGAAG AGAAGGGCTT
 351 TCCAGCCACA ACGAGCTGCT GCCCTCCTGC GGGAAAGAAGT TCTGCAGCCG
 401 AGGGAGCCGG TGCGTGCTCA GCAGGAAGAC AGGGGAGCCC GAATGCCAGT
 451 GCCTGGAGGC ATGCAGGCC AGCTACGTGC CTGTGTGCGG CTCTGATGGG
 501 AGGTTTTATG AAAACCACGT TAAGCTCCAC CGTGCTGCTT GCCTCCTGGG
 551 AAAGAGGATC ACCGTCACTCC ACAGCAAGGA CTGTTTCCCTC AAAGGTGACA
 601 CGTGCACCAT GGCGGGCTAC GCGCGCTTGAGA AGAATGCTCT TCTGGCACTC
 651 CAGACCCGTC TGCGCCACT CCAAGAAAGGA GACAGCAGAC AAGACCCCTGC
 701 CTCCCCAGAAG CGCCTCCTGG TGGAAATCTCT GTTCAAGGGAC TTAGATGCAG
 751 ATGGCAATGG CCACCTCAGC AGCTCCGAAC TGGCTCAGCA TGTGCTGAAG
 801 AACGAGGACC TGGATGAAGA CTTACTTGGT TGCTCACCAAG GTGACCTCCT
 851 CCGATTGAC GATTACAACA GTGACAGCTC CCTGACCCCTC CGCGAGTTCT
 901 ACATGGCCTT CGGGCAGAAAA TGCTGAAAATTCAATTGT CAAAACTTTG
 951 AAAGCCACAG GACTGAGCCA ACAAGGAGAG AAGCAATCAG GACTTTGTCA
 1001 TCAGAGGAGG CGGACTGCCC CCACGTCTTA TCAAATTAG TCCGGAATGT
 1051 ATTTTGCAT TATTGTAACT ATGCCCTCA GCTGCCACGC CGTTTCAGGA
 1101 ACGGAGCGCT AATACATTCT GTGGCACAGT CTCTTATGG GGAGGAAAGG
 1151 ATCCCAGTGC CCCTTGACAG AGAGAGAATA ATAGCATAAT GCAACAGAAC
 1201 ATTTTTGAAA TGCTAATACA CGCTCTCCGC AACTTAATT TATTTTTTTC
 1251 TTATTGGCTT TTTTATATGA CATTTCACAG TCCGTAGCC TCAATAGCTA
 1301 GATCTGCATC GTAAAAATGA CAACACGGTG ATTTAAGGAG GAGAGTCCAT
 1351 CAGAGCGAAA TGGGTGGTGT GCTTTAAAG TATCAGTTTA GCACCTCTTA
 1401 CCTGGGATCA ATGTTCATTC TCAATACATC ATTAAAGCAT CCTGTTAAAT
 1451 CAAAAAAAAA CAAAAAAAAA CAAAAAAAAA CAAAAAAAAA CAAAAAAAAA
 1501 CAAAAAAAAA CAAAAAAAAA CAAAAAAAAA CAAAAAAAAA CAAAA (SEQ ID NO: 1)

FEATURES:

5'UTR: 1-185
 Start Codon: 186
 Stop Codon: 924
 3'UTR: 927

Homologous proteins:

Top BLAST Hits:

	Score	E
CRA 335001101606041 /dataset=GENESEQ /org=Homo sapiens /taxon=9...	507	e-144
CRA 335001101606043 /dataset=GENESEQ /org=Homo sapiens /taxon=9...	393	e-109
CRA 335001101606039 /dataset=GENESEQ /org=Homo sapiens /taxon=9...	204	2e-52
CRA 335001101547741 /dataset=GENESEQ /org=Homo sapiens /taxon=9...	199	5e-51
CRA 335001101547741 /dataset=GENESEQ /org=Homo sapiens /taxon=9...	199	5e-51

BLAST hits to dbEST:

	Score	E
CRA 1000479221223 /altid=gi 3644849 /dataset=dbest /taxon=9606 ...	769	0.0
CRA 157000140836445 /altid=gi 13450375 /dataset=dbest /taxon=960...	737	0.0
CRA 61000077326330 /altid=gi 14464967 /dataset=dbest /taxon=960...	654	0.0
CRA 1000490577863 /altid=gi 5394666 /dataset=dbest /taxon=9606 ...	611	e-172
CRA 61000077321890 /altid=gi 14464587 /dataset=dbest /taxon=960...	605	e-170
CRA 61000077326375 /altid=gi 14464972 /dataset=dbest /taxon=960...	599	e-168
CRA 118000028774058 /altid=gi 10908004 /dataset=dbest /taxon=960...	100	3e-18
CRA 335001100819886 /altid=gi 11685581 /dataset=dbest /taxon=960...	100	3e-18

EXPRESSION INFORMATION:

Tissue source of BLAST dbEST hits:

gi|3644849 Soares_testis_NHT

Tissue source of cDNA clone:

whole brain

1 MKPGGFWLHL TLLGASLPAA LGWMDPGTSR GPDVGVGESQ AEEPRSFEVT
51 RREGLSSHNE LLASCGKKFC SRGSRCVLSR KTGEPECQCL EACRPSYVPV
101 CGSDGRFYEN HCKLHRAACL LGKRITVIHS KDCFLKGDTMAGYARLKN
151 VLLALQTRLQ PLQEGDSRQD PASQKRLLVE SLFRDLDADG NGHLSSSEL
201 QHVLKKQDLD EDLLGCSPGD LLRFDDYNSD SSLTLREFYM AFRQKC (SEQ ID NO:2)

FEATURES:

Functional domains and key regions:

Prosite results:

PDOC00004 PS00004 CAMP_PHOSPHO_SITE
cAMP- and cGMP-dependent protein kinase phosphorylation site
123-126 KRIT

PDOC00005 PS00005 PKC_PHOSPHO_SITE
Protein kinase C phosphorylation site

Number of matches: 5

1	28-30	TSR
2	50-52	TRR
3	79-81	SRK
4	173-175	SQK
5	234-236	TLR

PDOC00006 PS00006 CK2_PHOSPHO_SITE
Casein kinase II phosphorylation site

Number of matches: 7

1	39-42	SQAE
2	50-53	TRRE
3	57-60	SHNE
4	167-170	SRQD
5	195-198	SSSE
6	217-220	SPGD
7	234-237	TLRE

PDOC00008 PS00008 MYRISTYL

N-myristoylation site

Number of matches: 2

1	35-40	GVGESQ
2	215-220	GCSPGD

PDOC00009 PS00009 AMIDATION

Amidation site

Number of matches: 2

1	65-68	CGKK
2	121-124	LGKR

PDOC00018 PS00018 EF_HAND

EF-hand calcium-binding domain

187-199 DADGNQHLSSSEL

Membrane spanning structure and domains:

Helix	Begin	End	Score	Certainty
1	4	24	1.553	Certain

BLAST Alignment to Top Hit:

>CRA|335001101606041 /dataset=GENESEQ /org=Homo sapiens /taxon=9606
/mol_type=aa /date=19-FEB-01 /length=842
/altid=derwent_ac|AAB19727 /altid=derwent_id|AAB19727
/def=Human SECX Clone 4324229-2 encoded protein
/patent=WO200061754-A2 /pat_section=Claim
Length = 842

Score = 507 bits (1292), Expect = e-144
Identities = 242/243 (99%), Positives = 243/243 (99%)

Query: 1 MKPGGFWLHLTLLGASLPAALGWMDPGTSRGPDVGVGESQAEEPRSFEVTRREGLSSHNE 60
MKPGGFWLHLTLLGASLPAALGWMDPGTSRGPDVGVGESQAEEPRSFEVTRREGLSSHNE
Sbjct: 1 MKPGGFWLHLTLLGASLPAALGWMDPGTSRGPDVGVGESQAEEPRSFEVTRREGLSSHNE 60

Query: 61 LLASCGKKFCRSRGSRCVLSRKTEPECQCLEARPSYVPVCGSDGRFYENHCKLHRAACL 120
LLASCGKKFCRSRGSRCVLSRKTEPECQCLEARPSYVPVCGSDGRFYENHCKLHRAACL
Sbjct: 61 LLASCGKKFCRSRGSRCVLSRKTEPECQCLEARPSYVPVCGSDGRFYENHCKLHRAACL 120

Query: 121 LGKRITVIHSKDCFLKGDTCTMAGYARLKNVLLALQTRLQPLQEGDSRQDPASQKRLLV 180
LGKRITVIHSKDCFLKGDTCTMAGYARLKNVLLALQTRLQPLQEGDSRQDPASQKRLLV
Sbjct: 121 LGKRITVIHSKDCFLKGDTCTMAGYARLKNVLLALQTRLQPLQEGDSRQDPASQKRLLV 180

Query: 181 SLFRDLDADGNNGHLSSELAQHVLKKQDLDEDLLGCSPGDLLRFDDYNSDSSLTLREFYM 240
SLFRDLDADGNNGHLSSELAQHVLKKQDLDEDLLGCSPGDLLRFDDYNSDSSLTLREFYM
Sbjct: 181 SLFRDLDADGNNGHLSSELAQHVLKKQDLDEDLLGCSPGDLLRFDDYNSDSSLTLREFYM 240

Query: 241 AFR 243
AF+
Sbjct: 241 AFQ 243 (SEQ ID NO:4)

Hmmer search results (Pfam):

Scores for sequence family classification (score includes all domains):

Model	Description	Score	E-value	N
PF00050	Kazal-type serine protease inhibitor domain	42.2	4.7e-09	1
PF00036	EF hand	11.6	0.2	1
PF00243	Nerve growth factor family	4.0	4.9	1

Parsed for domains:

Model	Domain	seq-f	seq-t	hmm-f	hmm-t	score	E-value
PF00243	1/1	76	85 ..	109	118 .]	4.0	4.9
PF00050	1/1	89	133 ..	1	61 [.]	42.2	4.7e-09
PF00036	1/1	178	199 ..	1	22 [.]	11.6	0.2

1 TCATTCCGAG GTGACTTTA ATTCACTCT TATTTATGC ACAGTAGTTA
51 AACAGCTAC TTCAGATGTT AGCATTCTCT CTAAGGAATA TTCCATACAT
101 CTGGTTGCA GCAACTACCT TCTTCTCCTT CTGGGAAG CGTGTAGAAG
151 TTCAGTGCT GTTCAGTGCA TTAAACAGAG CTATTTCTGA TCTTGGTCAA
201 CCTATAGACC CTGAGTTACA TATGACCTTG AGTTACTAAA AAACAAAAAA
251 TACACAAAGT CCTGCTTGA TTATGTAATA AGGCCACTAG GCTGACTCAG
301 GGACTTTGTG ATCAGAGCTG AGAATAGAAA TCTGCTTTTC CAAATACCTC
351 ATGTCTTACA GGAGAGCCGA ATCCAGCCTC TAAGCCATGG TGTACGTTCC
401 TGACCACAGA CTTAGAATTAA CATTTCAGAG GGAGGCACAG CACATTTCCA
451 AACTCCCTG CTTCTTTTA TACTCATTTT CTCTTTCTG TTTCCAAGA
501 TGAAAAGTGC CATCCCTTCC CCAGTCCTGC CATGGAGAAT CTGGCCCCCTA
551 GCCAGCCCCA GAAGTTCAGT CATGGTGGCC TTGGCAAAGA TTCACTAGTCA
601 AATCTGAGAG AGGATCACAC TGGCTAGGGC CCAGGGTCAC TGAGGATGTA
651 GTAGCCTTAA TCCTCTGAG TAAAAATCAT GGTATCCACA TGGGAAGTCA
701 ACCAGGTTT GTCCAACCCC TCATTTTACA AGTGGGGAAA CTGATACCTA
751 CAGTAGAGAT ACGATTGGCT CTGCATTACA TAGCTGGCA GTGATAGAGG
801 GAGAGCTGGA CCCAGACCA AAACGTGTTG ATGCCAAGAC CGCGCTGGCC
851 CATTCACTGC TGTATCTCTA GCAACTATTAA ATAGCACAGT GCCTGCTGCA
901 TTGGAGGGGT TCAGGGCAG GAAAATCTGT GGAAGGAAAA AACAAACGTA
951 ATATCTCTT CTTCAGGTCA GCCTTCCATT ATTCTTCCCC TTTCCCTTAT
1001 ATTTAACTAA CTTCATCCTC AGAAAAATCC CCTCTGTCAC CTCCCCCCC
1051 CCAGGAGAGA TTACAGAGGC ATGGACAGAA CACTGTCAC CTAAGCCAGG
1101 AAGGCCCTG GTGCCACGC AGCCAGAGCA GGAGGCAGGC CCTCAGAAAG
1151 TCTCCTGGCC ATCAGCCTGG CCTGGTAGG GGCTCCCTCC TAAGTTCT
1201 GCCAGACTGA GGCTACGTAT GACCATTAT GGGCCCCCTAG TTGTTACAAA
1251 GGTGTTTCCA GTTCATTGCG GAAGGAAGAC TGATCTAAA AGCTGCTGAT
1301 GTTAAAGAGG GATTCAAGAAA AGTTTGGGAG CCCCAGGCTT GGGGATGGGA
1351 TCAGGATGGG GAAAATATCCT GTTCTAAGGG AGAAGGGACC CTCTGGGCC
1401 AGCTAGGTCA GGTAGGAAA TGTCACTTGG GATTGCCCT GTATGCCCTG
1451 AATGTCTTAA GATTCTGTTG TTGGAAGAGG GAAGATTCAAG AAAAGAGAAA
1501 ACCTTGTG TGTTCCCAGGT TGTTGGGTCT CAACGGGGGG GGATTTCA
1551 CACTTGTCC CCAGGGACAG CTCTCCTGCT GTGGTGTACC GGCCCGCCTG
1601 GACTCCACGA GCAATGGCCG CGGATTTCAGA GACCCCCCTGT GCGCCTGGAG
1651 AGCACAGCT TGGGAACCT GGCCCGGAAA GGAGCCTGGA GGAGAGCAGA
1701 GGTGAAGAGG GGCTGTCACT TGCCGAGCTC CACGCTAGCC AGAGGCAGGA
1751 GCGCTACGCT GGCCCTCTC CCTCCGGGCC CTAGATGGCC CCAGCGCTCC
1801 CGAGTCATCG CGCCCCCGCT GCGCGCCCGC CTGCTCCCGC CACCTGCC
1851 GGCGCGCCG CGGGCTGAC CGGCTGGCG GCGGGCGGCG CGCACAGGTG
1901 GCGCGATTG GGCAGGCGGG GCCCAGAGGG TGACGTACG GGCTCCGGTC
1951 CGCGCGGAG AATAGGGCA GCGCGGGCG CGGTGGCACA GCAGCGGGCA
2001 CGCGCGGCTC AGGGAGCTGG AGCCTCAACA GCCTCCAGCG AGCCCGGGAC
2051 CGCGCGACAG CCCGAGAAC CAGCCGAAGG ACGCGGGCG GGGTCGCC
2101 CGCGGCCACG CGGTGCTCCC TCCCTCCCGC CCAAGTCCGG CCACCTGGTC
2151 TTCCCCCTCGG CCCCCCGCT CTCAGGTACCG CGGGCGCAGC TCCAGCGGG
2201 CGCGGGGAGG GTGCCATGTC GCTGGCGCCG CCACCGCCCG GTCCCGCTGC
2251 ACCCCACTGG GGTCTGGCG CCCGCGGCCCG CGCATCTTGC TGCAGGGCCC
2301 GGCAGGGGG CTTGCTGTC CTTACTGCC GCGCCGGGAA AGCCAAGTTT
2351 CGCCGCGGGG AAGGGACCGC TGGGCCAGGG CTCGGCAGGG CTACCCCGGC
2401 CAAGGCCAGG ACTCGAGGAG AGGCTGGAC GCGGAGGCTC GTGGCGGGGG
2451 TCTACGGTGG GGACCGGAGT GACCCGGTTG GCACGGGGGG CGCACGCAG
2501 AAGCGCTCGG GCCGAGCCCG CAGCTCGCG CGGCTCCGA AATCCTGCAG
2551 GCGCGTTCT TGGGTTCAAG ACCCCGAGCG GCCCGGGCG AGCCAGGCAG
2601 GCGCGGCCCG TCGGGCCGGG CCCGGTGCCC TTGGCTCCGG GTTGGGGCGC
2651 CGGGCAGGCA TTCTCAGCAC CTCCCTCCCG CGGCTTGC GGGAAACTTG
2701 CGTCTCTCG CTGCAAGCCCA AAGGGCCCGC TGCGCTTCGC CTGGCCCTGG
2751 CTTCCCCGGG GTCCGCCGCA TGTGAGGCTG GGGAGGAAGG AATCAGGGCA
2801 CGACCGACT CCAGGCAGCC TCGGGCGCTG CTTGTGCGTA GCGGGCGCG
2851 GTCCAGAGTG AGCGGGCCGG GGTACCCGCT TGAACGTGTC TAGGGAGCAG
2901 TGTGTTGGGG GCGTTCAGCG TTGGGCTGG GGGCTTGGTC CTAAGAGAGC
2951 TTGCACTGTG GATGATCTCC GCCCTTTTG CGCCCGCAAA ACAAAAGACGA
3001 GTTCTGAGTT TCAGGAGGGAA CCTGGACAGAG GCAGGCACAG CACTCTGCTT
3051 TCGGCCTCTG TCGCTCGAG TTTGGGAGC AGCTGACGCT AGTCTTGGG
3101 GCTCCCTGCA GCCGACAAAG CGGCAGCAAC CCCAGGCCTG CCACCTGAGG

FIGURE 3, page 1 of 188

3151 ACTTTGTGCC CGCAACTCTT GCGGGAGCGG AAAGCCGCCG AGGCAGTGGG
3201 GTTTCTTGT TTCCAGAGCG CGCGAGCCT CCGCGCGCG CGGCAAGTGC
3251 ACTAGGAGTG CGCGGGTCAG CGGGCGGGC CCGCGAGGT CGGTGTCGCG
3301 GCTCGAGAGC GGGTGCCTGG GCGCTGTCCA GCAGCCCTCG CTGCGGCCG
3351 CGGGCCGCCG ACACTGATGA ATGGCGCGGC CACAGCCCAC CGCTCCCCCTC
3401 TAGGTGTCGC TTCCGCCAG CTTTCCTCCA GTGAAAAACA GCGCCGGCAG
3451 CTTGGTCTGT TACCTCGTA AATTGTTGC AAGCCTGTGC ACCAGGAATT
3501 GTACTAGATG GGGCCCCCGA GATACAAACA TCCGTCCAGG TTCTCTGGGC
3551 CAAACGTAAC CAGAATTCA ATAGGTGGTG AAGTAACTGC CAGCCAAAT
3601 GTTCACCGGG AATGGGCCTG TGTCACAATC TGTGAGGGGA AAAGACGGAT
3651 CAGTGAGCGA CTAGGACTCT TCTTGAAAGT CCTAAGTTAT TTTCTACTG
3701 CCAAATTAG GGGAAACCAG CGATGCTTT TAATAGTGTG TTCTTAATCC
3751 TGGGAGCCAG CGCGCAGTT CTGTGCCTGC CCCTCTGGCC CCCAGGACAG
3801 ACTCTGGTC TGGTGGCGG GGGGTCCACC TGGGAAGGGGA ATGGTGGAG
3851 GTGTGACTGA TGCAGCTCT GAGACTCCAG AGCCACAGCA ACTCTCAGGC
3901 AGGAGCTAA GCCGGACATA CGAGCAGATG CCCTACAGGG CACGTGTCG
3951 CTTCCTCATCT TAGCGTTGTG AGAAGGGAGC ACTGCAGCAT CACTAGACCA
4001 TTTCGTCATC ACTCTGCTAA ATGTTCGCTT TTTCCCTCCC ATCCTAGGAA
4051 AAAAACGCCAC CACCCCTCTCC AAAGACTTCA GACTGAGCCA AAGTTCACAT
4101 AAGAAAATAG TCCACTTTGA TGTAATGTAT TTAAATTGCT CGTTAGAGTT
4151 GTCCTAGTGC TTTTTCTCT CTTAGACTTT TATGATCATC CTCAATTTC
4201 GTTGATTCTA GGAAAGCTCT TTTTCTTCTG GAAAAGGCCA GCTTGTTTTT
4251 CTGGGTATTA GGAGAACCTT TATCCTTCTG GCTGTGCCCT GGAGGTGGGT
4301 GAGGGAAAGAG GAGGTGGAT TTTTCCACCA TGACCAGTCA GTCACTGAGG
4351 ACTTTTTTC CTTTTACTAA GGGCGTAGG ACTTTTTAAA TGTGACCTTC
4401 ACGTTATGAT CTTTTGTTTG ACTTTAACACT ATATTCAAGAG ACTAGCATTG
4451 AATAGTCATT GTPTCATAAA ACTACCTTAA CTCCTACCTT GCCTTGTTC
4501 ATGTTTCTC TGCAAACCTCA ACCTTCTTGA GTTGCTTATG TGCGGTTAGT
4551 TGTGCTTC CTAGCTTAAT GCAATTAGAT ATTTCAAGAG CACATCTTC
4601 TTACATTT CTGTCCTCAAT GCATAACATA AGGCATGGAA TTTCAATAA
4651 ATAGAACTG CAATCAAGAG CATGTGGTTC TTAAGAGGTA TGAGCTGAAG
4701 GTTGTAAGGA TAAAGGTTAT TGGAAAGTCAC ATGTTGTTCT GTGTTAACCG
4751 TCAGAGTAA TAGGAATAGA GATTTATACA TGGCACATAG AATAATGTAG
4801 CCATCTAATT TATCAAGTGT TGGGAAAGAA TTAACTAATG ATATAGAGTA
4851 GATAATTAAT AGGAAATGCA ATTTAACTTC ATTAGGGCTT GCTGCAACGT
4901 TAGCTTGCTA TATCTCCATG CCTAATTTC CTTGGTTGGT GTTTTAGGGA
4951 CTGCTTCTAGG AAATCTGTAC CACTTTCTTT TTTTCTAAAA CACTCACATA
5001 TCAAAACTAG GGTGCTAACG CTTTGAGAGG TTCCCGTACA GCCTCCTGGT
5051 TTCACGCTGG GGTGATGTG GCTTTTTTC CCCCTTAAA TTGAGCAGA
5101 CATGCCAGAAG AGAATTCCAC GTTGATATTCA GTCAGTATTT GGAATTCCAG
5151 AATCCCAGTT GATTTTATA TGTGATTGCA CAACATGCCA TGTATGAAAT
5201 GCTACACACC TACAGTGTGT GTAGGGCAGA CACTTTTCA TTTGGAAAGG
5251 TTGAGAATGC AGATGCTTCA GGGTCACAAA TCTGACTGTG CTCTTCAAGG
5301 CTGGGTGGCA TTGCTGGTT CTGCCAAATC ATCTTTGTAA TTCTGGTCC
5351 TGTGATTAC AAAAGAAAGC CATTCTGTCA TGGCTAATCC TTAATGGCTA
5401 GTCTGGTAAAGT GTTACCAAGT TCTGGGAGAG AGGCTGAGAG AGAGAATGGA
5451 TGAACAATGC CACCGAAACT CTGAGGGCCA GAATTCCCAT TCTCCCAAC
5501 AGGGCTGTTT CCTGAAATAG AAAGAGAAGT TTGTATTTAAA CCCATTGCCA
5551 GTTAATGGG ATTGCTTCTC TCTGGCTAT GAACTGGTC AATAAAGACA
5601 GCTTACATGC CTGTCGTGCGT TCTCTGGGTG GGGCAGATTT TGGTATTTTC
5651 ATATGAATAC CTATTCTC CTAACAATTG GCAATTCTAT TTGATGCTTT
5701 TTCAGCTTTC TTCAAAAGC AAGTCAGTAT TTGGAATGTT ACATCATACT
5751 AACCTGTAAT ACCTCTGTAA TTCTAAATAC AGATAAATAA TAGCACAGAT
5801 ATTAGCTTAT TTTAGAACAC CTGAAAATCC TGTGGTTTTC ACAAGGAGGT
5851 AGACAATCTA GTGGAGGTCC TTCAGCATTG AGAAAAGCAA AATCTGCCTA
5901 TCTAAACAAA GAATCCAAAC TCCCACCTCA GATGTAAGTG TGCCATAATA
5951 TAAGGAACCA AACAGTTGCC CTGGGGCAG GATGCCCTGGG TTCCAGTTA
6001 GGCCTAGCCA CTGATTGTC CTTGAACCTG GGTGGATTG TCCACCTTCT
6051 GGTCTTCTGG TGTCTTATCT ATGCGGCAGC CAGGTAGCA CCAGGTTCTC
6101 CTGACTGGGG GAATGCTGT TGAAGCTCTG GTAGGAAACC ACAGGGGAAG
6151 CAATGAAACCA CCTCCCTTCC AAACAAGATG GTTAAAGCAT CAAGTCAGTG
6201 TACTTTATGA CTTGTTGGA ACAAAGGTA GTCTCAGCTC TTTATATGGG
6251 GACAGTCCTA GGTAGATTAA TAATTAATAC TTAGGGCTTA GCAAGGATTG

6301 AATGAAACTT ATTAATCTAA ATTGATCTCA AAAGGAGCTC TAGGTTAAA
6351 AGGGGATTG TGACCTTATG GATGGCACCT TCCCAATTCT ATAATGGGA
6401 GATTCTTCA TTTGCCTCTA TCTGAAGGCC AGTAGGACTA TTTGAATTG
6451 AGGAGTAATT AATTGTTAA CAGATTTACT TCTCCAGAGT GACTAGCCTT
6501 ATGATGCTGG TGCTCTCCGT GAGCTGAGGG GCATCGGCCT GGGATTCTGT
6551 GCATCTTTT ATGGTCCCCC TCCCTCCCTC CCTCCCTCTC TTCCCTCTAC
6601 CGTATTTTT CTTAGCCCCTT AAATAGAGCA GCAGTGAGGA CTGAGGAGAG
6651 TCTGCCAGG GGCCCCCATC CCGGGGTAGA ATGTGGAAT TAAGGGTGAN
6701 CAGCTTGCTC CTCTGCCCTT GTTGGAGCC ATGAGGAGGA GAGTAGCTCG
6751 TGGCAGCTTT CAGAGGAAAG GAGAGTCTCG GGGCCAGGGC CTCTATCTT
6801 ACTGTCCTCA GATTTCCCCC ATTATACTAA AAACAACGTG TTATCAAAC
6851 AAAACAGGCA GGACAAAACA AAACAGACAG GCAGCAGCAG GTGGGAGTTA
6901 AGAGAATAGA TGTCTGGGT CTACGTGCCT GACTTGAAT TTCACTTTG
6951 CCACCTGCTC GCCACATGGC CTTGGCAGAG TCCTTAACCT CTCGTGACC
7001 CCATCTCCCTT TTCTCATCTGA TTGAGGGATA ATCATGGCCC CCATCATGGA
7051 GTAGAAAAAG GAGGGTTATG AGTTAATACC TGTGAAGTGC TTAGAACAGT
7101 GCCTGACACA TCGTAATTGC TATATAAGTG TTAACCAAAT AGATAGTCTC
7151 TATTTGATTA TTAGACAGAT AATCAAATT GATTAGACC CAATATTAAT
7201 TCCCTTTTAT GAACTGAACG GTCATAAAAC TTGAGCTGTA AATTTCCAGG
7251 CTGTTGGTC TGTAGATATA ATGAATTGTC AATCACCGTT AAGTATAAAA
7301 TGACATCTAA AACACATCCA CAGTGCAAAT GAAATCACAG CTAGTGGTAG
7351 ACAGACTGAG CTAACACTTA CAAACAAAGCT GCCCAGGAGT ATTCAGTAG
7401 TTGGCTGGC TCATGTGTTT TCCTGTTCC AGAGTTTCC TGTTCCAGA
7451 TACAATCTTA CAGGAAATAT AAACACAAAC CAGATAAAAC CAGTGGCAAC
7501 TCCAGGCCAA GCTCCAGGCT TGGATCTTGG GCCTCTGAA ACACAACCCA
7551 GAAACCAGCA GTCTTGGTC ATCCCTTTAT GAACTGATTT GGCGCTTGCC
7601 AAAATCACAG TTGAAATGAA TATATTTTAT TTTAATGCTA CCCATTAGTA
7651 CAAAAACATA AAACATAATT GATCTTAGAT TACAAAGCAG ATTAAGAGTT
7701 AAATACCAAGA TTTTGTGGCT TATGTATTTC ATAACCTCAA GAGTTGACAT
7751 CTGTACATTA ACTAGAATAG ATTTGGATTA TCTTGCTGTT TTTCGTTTAT
7801 GTGAGCTAGG AGACATGGAA AGGGAGAAAA GTAGACCTTG CTCTGTGTG
7851 TTACTCTGTG AGCAATGTTT GATAGTAGAT AAGTAGGACA AAATTAATGA
7901 GAATAAGAAG CAATGCTTT CTAGTTCTAG CTTAAATTTC TATGGCTGGT
7951 TTTTAAAAAT TCCAAAATC CACTCGCTGT TTTCTGCACT CTCTGGAAAG
8001 TTGGCTCTGA TTCAGAAGAG GATTACTTAT GGAGAACCTT GAGTTACCTT
8051 GTTTATTTT AGAAAAATGG GTTGCAGCTC AGCTGGCAT GGTGGCTCAT
8101 TCCTATAATA CCAGCACTTT GGGAGGCCGA AGCAGGTGGA TCACCTGAGG
8151 TTGGGAGTTG GAGACCAGCC TGACCAACAT GGAGAAACCC TGTCTCTATT
8201 AAAAATACAA AATTAGCTGG GCATGGTGGC GCATGCCCTG CATCCCAGCT
8251 ACTCGGGAGG CTGAGGCCAGG AGAACACTT GAACCCAGGA GGCGGAGGTT
8301 GCAGTGAGCC GAGATCGCAC CATTGAACCTC CAGCGCAGGC TACAAGAGTG
8351 AAAACTCCATC TCAAGAAAAC ATAACAAAGC GGTTGCAGTT AGGGGAAGAC
8401 ATTTTATTC TTAGTCCCAGA ATATGATTTT CTTTCTCTGC TCCTTCTCCC
8451 TCTAAGATTT CACACACCCCT ACCTAGATCA CTGGATCAAG AGCCAGAAAG
8501 CCATTGGGG GCAGGGGAGG GAGTGCCTG ACTGCCAG TCCTCACAGT
8551 CCTCTCCCCG GTGGCAGCTG AAGGGCATT ATTCCACTCA ACTCTGCCCT
8601 CTTCAGAGTG TGGGCAGGT GCTGATGGT AGACTGTGAC CTTCAGATTA
8651 TATTTACTGA CCACCCAGAC TCTTTCTG GTACCTCAGC TTTGTCACAA
8701 GATGTCAAAG ATGAGTGACC GAAGAAACAG ATATAAGAGT GGGAGCTTAT
8751 GGACTCTTT TAAACAAAGC AGACACCTTC TCTTAAAGA CAGTCATGCC
8801 TTATAACCTT GCCTTTCTCAT AGGCCAGTC CATAGGCCCA CAATTTGAG
8851 TCTGACTTCT CCTCCCTGTG GGCATTCTG TCTCCAGCTG GAGACATAAA
8901 GCAGATGTGG AGAGGCCAGCT CTATTTGGAT GTGGATAGCA GCCAAACAAA
8951 ACCTGGAATG TGGCAGGAGT GTAATTGTTT GCCAGCCCTG GACTCAGCAC
9001 TAGTGAATAT GTGACAACCTT CCACCCCTT GTCTAAAGTA GGGATGCTCC
9051 AAAGCTGTG CCTATGGCAG TGAGCAGGGG TGGACTGCCA GGTCCCTCAA
9101 GCACCCACTT CTTCTGAAT TGGATGTCTG TTCTGGACCA GCCCTAAAGCC
9151 AGTTCATGCT GGATGCTGGC CTCCAAGGAG CTCCGGTGTG TTTAACTCAC
9201 CAGCCTAGAT CAGGATGCGAG TGTGGACCAT ATGTGATTAAC GCACTAAATT
9251 GTGTGGTACA AGCAGAAATC AATAACCCCT AAAGTTTCCCT TGAGTAGGGG
9301 TTCTAAGTAC TACATAATGA CTGTATCTG GTTATGTTTC ATAATCAGAA
9351 TACTGAAATT ATGGTGGAC TGTGTCACA GTGGAAAATC TTTCCAAAAA
9401 AAGTACAGCT TATTGGACAA GTAAGATAGT CTGTATCCTC ATTCCTCAG

9451 CACAATGCTT AGCACATGAT TTGGACTTGA ATATTTGTTG TAGCTGATCC
 9501 TTAGTTTTT CATCCATGTG ATTATTTGAT TACCTTGAAT TGCTCACTTC
 9551 TTGTCTTTA GGACTGTATA CAGTAATGTT ATCAAGTGAG CCTCAGGAAA
 9601 CACCTAAAG GTTATTGAAA TTCTGTTATC ATTGGATGCT TGGATTCTGC
 9651 CACAAAAAAAT GGTTGGTCTT GAAACTAAGA TATTAGACCT TATGATGCCA
 9701 TTTTGAAGCT CACTGTCTTA TAAACTGAGG TGTCGGCTGC AAATGAGGTG
 9751 CCAGAGATGT AACATAATTC TTAATCATCA TTTCTTTTG TGAGACAAGA
 9801 GTCTCACTCT GTCGCCCAGG TTAAAGTGCA GAGGTATGAT CTCGGCTCAC
 9851 TGCAACCTCC GCCTCCCGAG TTCAAGCGAT TCTCCTGCC CAGCCTCCTG
 9901 AGTAGCTGGA ATTACAGGTG CCTGCTACCA CGCCCAGCTA ATTTTGTAT
 9951 GTTTAGTGA GACCGGGTTT CACCATGTTG GCCAGACTGG TCTCAAACTC
 10001 CTGACCTCAA GTGATCCATC TACCTCCGCC TACCAAAGTG CTGGGATTAC
 10051 AGGTGTTGAG CCACTGCGCC CAGCCATAAT CATACTTCT CGAGCACTAA
 10101 TTGTGTGCCT AGCCCCAAAT GCTTCTCAAG GAAACTAAGG CGTGGCTATA
 10151 TGGCAGCCTA ATAGAGGTGA CCCACCTGCC TCACCCCTGGT TTGTTCTTAT
 10201 AGATGTAATG GTAGGTTGCA TTTCAAATGG GTTCCACGT AACAGCATT
 10251 ATAGAGTTCT TACTCTATGC CTGACACTAA CCTCCTCAAT CCTCACAAAA
 10301 GCCTTCGAG TTACATATTA TTGCCATTAGT AGAAATAAGT AACTAAGGC
 10351 TCAGAAAGTAA TATAACCTC CCAAGGTAGA ACAGAAAGTTT GGTGCCAGGA
 10401 TTTAAACCCA GGCTTATCTG ATTCTGGGG A CACATACTA ACTCACTGTG
 10451 ACTTATTATA TCCATCTCAT AATGTTTTAT TCTCAGCATT TGTCAATTCT
 10501 TCAACAGACT CATCAAAATG AAACCAGGAG GCTTTGGCT GCATCTACA
 10551 CTGCTCGAG CCTCCCTGCC GGCTGCGCTG GGATGGATGG ACCCAGGAAC
 10601 CAGCAGAGGC CCGGATGTGG GTGTGGGGGA GTCACAGGCA GAGGTATAGT
 10651 CAAATCCCTG CGGACATAAC ATTTCAAAC GATTGCTTTC CGATGTTACA
 10701 GTATCTGATT TCCCCCTCCAC CTTTAGTTTA GATCAGTTAG ATCACAAAGT
 10751 GAATTAAAAT TGCACCTCCT TTTTGGTGG GACAGAAGAA GGCAACCTGT
 10801 GTGGATACAG ACAAGAGGTT GATAACACGA CGTGAGTAAT GGCTCTAAA
 10851 CCTCTCAGAT GCTGAAAGTG TATTCCGAAA CCAAGCTTGA ATTGCCTGGT
 10901 TAGTCTCTAC AAAGACCCCTC AGGAGAAATGG CCTTCTGTA TATTTAATAA
 10951 AACTCTGAAA ATGCAGAGTA ATTGGTGGAG CACACCCATG TGAATTAGTG
 11001 AAGTATTTA ATTATAAAAAT ATATTTGAAA AGAAATGGAC TACTTTTCAG
 11051 GTATATGAT AGAAAGCACC AGGCTGAGAA AGAAACTGGCA AGTGGAGGTC
 11101 CTAAGGGAGA GTGCTTTAAT GAACAGATAA GAATGATTAA TGGCATGTTA
 11151 GGTATATATA AATGCTTCTA AAGTGCTTGA AAAACTTGTC CTCAAATACC
 11201 TCCCCTGGAGA GTCTGGATGT TCTGCTAATT GCTTAGTGAA CCCTGGCTTT
 11251 ATGTAGTAAA GAGGATCCAT AAACCTGCAAC CTGGCCCTCT CCAAGGTAGT
 11301 AGGTCCCATG AATTGGGGT TCATGGGCAA AATGTTTTT TCTGCAGAAA
 11351 ATGCTTTGTG TGTGCTGACT CTTAAGGAAT GACTTCACCC TTCCATTAAA
 11401 ACCACCTGGG ATTTCTCTA TGCTGTGATG AATACTAATT CCTAATAGGC
 11451 AGCTTCCAG GCCACCTTTC CTCCCAATTGT CTTCTTGAT GCCTGCCGTT
 11501 CTCTTTCT TTGTCCCTGT TTCTCTGCTC GCGGAATGAG AAATAAAAAT
 11551 TACCTCAAA AGTCAACATT CCCAGAGGT GAATAAGGTT ACTCAGTGTA
 11601 GGGTAGGATT AATGCATTAT TTGATCAAA GACATGATTT CTCTTTCTT
 11651 ATTACTTAAT TGTAATGCAA TCCCAACCT ACCAGCCTTA ATCTTTGGGG
 11701 AGCCTCAGAA GTAATTTAAT GTACACTTT CCTGCAGAAG TTAGTGTGCC
 11751 TTCTTTGTG GGTGAGCAGA TGATTAACA GAAACGCTAT CTCTGCCGTC
 11801 TAAATCCATG AAGGAGCCAA TTIAATGCTC TTTTGAAGAAGA GTCTGGAGGC
 11851 TGGCTTGCTG GTGAGAACAG CATTCTCCT ATGGGAACAG CTTTATCAGT
 11901 ACACTCATAT CCATACAAAG AGAAATGAT CACTTAAATC CTACACATAT
 11951 ATTGTTGAAT ATTTAATAGC AAAGCAACA GACAAACACA CAGGTAAGCT
 12001 TAGTCTTCTT ACTATGGGG CTACACGGC CACTGTTTA AACCACTTAT
 12051 TTCAAATAAAGT AGTATCAAGT CAATTAAGGT GGGATTTAGC TGGAGGTAAA
 12101 TTGAAGGTAA GTTAATATCA ACCCAGGGCC TCTTTATCTT AGCTGTTAAC
 12151 ACCCTAATTC TTTGTGTGCC ACAAGAAGG AGCAGATGCT GGTCAATTGGG
 12201 AGGAAGTAAC GCTTTTGGG GGTTGTTATT TTGCTCCCT GCAACCCCTG
 12251 CTCCAGGGTA GCTTTGTCT TCCAAGTCCA GGAATGTTGC TGCTTCAGGA
 12301 AAGGGAGGTG ATGACTGTGT AGATTCTGCA CCACAAAGAAC TATTGCCCTA
 12351 TTGATCATAT ATATAGTTTT TTGCTATAGC TTTTGTGTTT GCACTTATT
 12401 AACCTCTAAT CATTGAAACT GTTCTATCA GTGATTAAAT GAGATGATAA
 12451 TAATGGGAAT GGGCTAGGG CTTAGGATGG CCTAGGTTAA AGGTTAGCT
 12501 GCAGAGAACAA GAACACTTCC AGGTACGGTG GCTCACACCT AATAATCCAA
 12551 GCAGTTGAG AGGCCGAGGT GGGCAGATCA CTTGAGCCCCA GGAGTTCAAG

12601 ACCAGCCTGG GCAACATAGC AAAACCCTGT CTCCACTAAA AATACAAAAG
 12651 TGAGCTGGGT GTGGTGGTGC ACTCCTGTAG TCCCAGCTAC TCGAGAGGCT
 12701 GAGGTGCCAG TACCACCTGA GCCTGGGGAA GTCAAGGCTG CAACAAGCCA
 12751 TGATTGTGCC ACTGCTCTCT AGCCTGGGTG ACAGAGTGAG ACCATGTCTG
 12801 AGAAAAAAA AAAAGAAAGA AAGAAAAGA AAAAACCTCGA AGAAAAAAA
 12851 AGAAAACAGA GAGCAGAACCA TTTATTTAA TCGGTTGTT TGCAGCCCT
 12901 GCTCACACTC TGTTCATCCC TCCATGCACC CCCATGCCCG TGCCCACCAG
 12951 GGGCCTCGTG CAGAGCGTGC TGTCTCTCCT TTCTATGTCT TTGCTTCTA
 13001 CACCTGACTC TCCTCCTCCT TCAGGGCCCA GCTCTGGTC TTACTTTTC
 13051 TTTAGAACCT TCTTGACCA CTCTGGTCA CACCTGGTCT CTTTTCTGA
 13101 ATTCTTAGTC CTTCTTTCT CTTTTGTTT TCTTACTCTT TTATTTTAC
 13151 GTTAGCATAT GGATGGAGCC TGTCTTATT ATCTTTCTT CCTTACAGTG
 13201 CCTAATAATT TTATAAGCAA AATAGAGGTT TGATGCATT TTAAGCCAAT
 13251 CGATATTAT GTGACCTTG GTCTGGTCA TAAAGTCACT CTGGTGCCTC
 13301 CAAAATTCA ACCGACCAT CAGGTATTTC AGCGCAGGGC ATACCTCCCT
 13351 GCACAGCAGG TTCATCCCCA GTGGGGACGT GGATGGTTT CCCCAGCAA
 13401 TCTGTGAGCA GCCTGCAGGC CGGACAGGGT TGCACTCTAA TATCCAAGAT
 13451 AGTCCTTGCG TGTATAGTT TCTGGTAGT TTATTATTTG AACTGTAGCT
 13501 ATTAATGTAT CGATAACTCA CAGTCCAAAC CATATTAAAC TCCTCTAGCA
 13551 GTTCTGCAG ACAGCTTAT TTCTGGAAAG AATCAAACCC AGCAGAGTTT
 13601 CCTGAGACTC TAAATAAGTG AAAAACCTTT TTCAAGAACC AGATATTAAA
 13651 ATGTTTCTGC ATTTCTCCC AGTAGTAGTA CTTCACACAA ATACTCATTG
 13701 ACTTAAGATT TTTAAAGTAC TTAGAAAGCC TTAATAAGAT TTGATTTACC
 13751 TTTAAAGTT TTATACCAAT TACTTGATTG ACCTAAGGGT AAATAAGAAT
 13801 TAAATGACCA ACGCGTGTGT GTGCACATAT TTTAAAGCA ATTATAGCAA
 13851 GTGTTAAATT ATTGTTTAT GTACAAAGAC TGCACTGGAA ATAGTTTCAA
 13901 GGAGTTTACCC ATTTCACAGA CATAGATAAA AAGAAATACA GCTGGGTGGA
 13951 GTGCCTCTT CATAAGAGTG GAGTGGCAGA ACGTGCCTA GAATACTAAT
 14001 GGAATTCTGA ATTCAAGAGGA ACAATTCTG AGAGGTACAA TTATATTGAAA
 14051 TAATGAAATG TTGTATATC CCCCCCCCCCT TTATCCTACA CAGATGCATT
 14101 TTGACTTATG ACGGGATTAC ATCCAAATAA ACCCACTGTA AGTGAAAAT
 14151 ATCATAGGTC GAAAATGTAT TTCATACACC TATCCTACCA AACATCGTAG
 14201 CCTAGTCTGA CCTGCCTTCA GCATGCTCAG AACACTGACA TTAGCCTACA
 14251 CTTAGGGCAA AATCATCTAA CACAAAGCCT ATTTTATAAT AAAATGTTGA
 14301 ATATCTTATG TAATTATTG AATACTGTAC TGAAAGTGAC AAACAGAAGG
 14351 GATGTATGGG CACTAAAAG TACGATTCT ACTGAATGTG TATCATTTTC
 14401 ATACTATGCT CATGTTGAAA AATCCTAAGT CAAACCAAAC CTAAGTCAGG
 14451 GACTGTCGT ACACTGGTCA AGATAAATAT AGTAGTAAA TCAATATTGA
 14501 TAGAATTGG TATTGAGGG GGAACCAAGG AACCAGGAAG GGGTGAGAAG
 14551 TGATATGGT GCAGCCTCCA GAGAGCATAC CTGCTTTGA GAAATAGGCA
 14601 TTTGTGGAG CCCCCCACTT TTGGGGCCTG GGTGCTGCAG TGGCCGCC
 14651 CCCACTTTG CAGCTGGGT GCTGTGGCGG GAGCCTCCCC TTTTGGGGCT
 14701 AGGGTGTGC CATTGGAGCC ACCCCATTTC TTGGGGCCTGG GTGCTATGGT
 14751 GGGAGCTCC CACTTTGGG GCCTGGGTGT CGTGTCCAG CACCAAGCATC
 14801 TCACCCATTG GCTGGGCTCT GAGATTGAAT GGTGGGCGTT ACATGGTCTT
 14851 ATACGTCTT CATGCATTTC ACTGAACCTT TTCTAAACGA CTCTTACCCA
 14901 TGGCATATAC ATAGTCACGT ACTACATACC TGTACATGTT AATATTGATT
 14951 CTTCTTAAA TTGTCACCTC ATGTGCCCTCA GTGCTTATAG ACCAGAGATA
 15001 GTTTTGAGC TCAGCACCA TGGGTTTCA GTATTGCAA ATTCTCTCAA
 15051 AGTAAAGCT TTGAGAAGA AATATGTGGA GTGGGTGTCAG CTAACCTAAA
 15101 CATGATTCCC CGCCTCCCTA ACCTCAGGGG TCAGCTTAAG ACAGCATTGA
 15151 TCCTACCCCTG ACTGACCGGC CCCTTCCCTC TGCTACAAAGT GTTGATGGCA
 15201 GGCATGACAC TCCTGTCCCC GCGAGGCATG GCAACCTCAA ATTGCAGAGT
 15251 CCCTTAGATG CTCCGTGGCT TCGTTCCGCC TTGGCTGGC ATTCAAGTAGT
 15301 ACTTGGGCTG CTAAGACTGA GCACTGATT TTACAAAAAC ACTTTCACTG
 15351 TTCTTATGTA TTCATTGTC TAACGCTAGT GTCCCTCACC CCCAACCA
 15401 CTTTCTGATA AAATTCTCCC CACCACCCAT AACCCCTGACT GTGCTCTTGT
 15451 ACTGATTACT GGGGAAGAAC AGCTGGTCGT CTGTAGGGCT TGAGATCTGC
 15501 CCGTTGGTGT TTGTAATCAG CCGTGGCCCTC AGCTGGTTG TGGGCATAAA
 15551 TAAAAGGAAC TCCCTCTTCC CGGTGAACCA ACGGGGTCC AAGCTGGACG
 15601 TTCGCATTT CTTAACGCTC ACCTACAGTA CGTGTGCATC TCTCATGGCT
 15651 TTTCTGCCGC ATCACCCCTG TGATAACTCAC CATTGCAAAT TCTAGTACTT
 15701 GACTTGCTT CAAAGAAGAT GAGACCCCTGG GCAAGGTCTC TCAGCAAGAG

FIGURE 3, page 5 of 188

15751 GCGAGAATGG TCTCCCCAGG GCCGTGGACC CCTGGGATAA CCGAACACG
 15801 TACTCCTTTC AAAAGGATCC AGAACTTCCT CTGCAGGTGC GGTGCTGGTT
 15851 GATGTGGGG CCACCTCTCT GGGCCCTAA CACTTAGCCA GGGCTTCTG
 15901 CTGATTATTC TGAGTCAGAG GATGTGGATA TTCGTTTTC AGGTACAAC
 15951 GGGAGGGCAC AACCTCCCAC CTATAGACGT TATCAGTACA TTTATAATTT
 16001 TCAAGGCAAA TGATGGTGGC AGAACCTCCC AAGGTCTCAG GGGCATGGG
 16051 ATTAACCCAT TCCCAATTGC AGAATGGGT GTGCTGTAAC CTGTGCCAGC
 16101 ACCTCTTGAG ATGCAATGTG CTTGTGAACG GTCTGGGATC TTGTTAAAAT
 16151 GCAGATTCTA ATGCAGCAAA TCTGAGGTGG GTCCCAGAT TCTGAGCTCC
 16201 AGGTGATGCT GATACTTCAG ATCCTGGGG ACACTGGGAA GAAAAGCCTT
 16251 AGAGGAGCCC CCTGCCTCCT CCCATGCACA CACACAAGGA GAATCCCAGT
 16301 TGGATTGACT CTGGCCTTTT TTTAGTTCTT GCTGACATGA TGCTGACTGC
 16351 AGTCAGGGAA AGGAGAGAAA TGGGCAGGCT GCAGTCATGC TGGAAAATAG
 16401 CTTGATGAGA CTAGCTTAGT GGGCAGGTAG GTGATGGGAA AGATGAACTT
 16451 AAACCAACCTT GGTTCTAGGG TCATTTGCAC CTGTTTCAA GCAGCTGGAC
 16501 AGGTAACCT CACTCTTGGG ACCCGTGGCT CCTCCCTGGC TTGCTGTTAG
 16551 GTGGTTTAA ATTCTGAAAG AGGTGATTTT AAATGCTGAG GCTTAGCCCA
 16601 CACCCCTGC TCCAAGGACC AACAGGCCAC TCACCTCTT CTTACCAACCG
 16651 TGGCTCCCT TCTGGTGTCC TATCCCACAT CTGCCCCAG GCCCAGCCAG
 16701 CCTGTTTGG GGATGAGCAT TGCTGCATTG GTGAGCTGTT TTGGAGTCTT
 16751 GTTTTTCTCT TTATCCTTGA ACAGGGAAAG TCACTGTCTT TGTTCTTGT
 16801 GTCCCTCTCA CTGCTCCCAG CCAGCCCTTC CACACTGTAC CAGTTAGTGC
 16851 ACTGTGTGCC TCTTGGTAT TTTGAGATCA TAGTTGACAA TTTTAATTGG
 16901 CCCTGAAAAG TTCTGTGACC CAGGAAAATG AGCATTATG AGTCACAGA
 16951 AACCCATTAT TTTTCTTCCT CTTAATTAG CATTACTTG TCTAACTACT
 17001 TTATTTATTC CTCTGTTGCT AAATTATCTA TACTCTGTA GGAAACTTCC
 17051 CACCCCTGTG ATGAAGACAT CAGGCTGTGC ATTGTAATG GGGCTCCAAT
 17101 TTCTATTTTT CGGGGAGTTG GCAGCACAGA TCTGCCAAGT CCCAATCATC
 17151 TGCTTGATT ATCCCCCTACA CCCTGTGGGT TGTTGCTTT GCTTCCCATT
 17201 TGGATGAAAG TAAATGTCGT CTTGTGTCA GGCAGGCTCT AACAAAGGCC
 17251 AATGAGTGGG CTCTACTCTT CAGGCCCTGCC AAGCCAGAGC CATTGTCTT
 17301 CTGCCTCCAT GGCTGTGGTC TCTGCCACTG GCTCCTGGC TTTGCTTGT
 17351 CACCAGCCAC CTGGGAGGTG GAGCATACTG GAACTAGACA TGGAGGATGT
 17401 GGGAGGATAT GGGCCCAGTG CTCTGAGCAG GCGACACCGA AACACTGTG
 17451 GTGGGTGCTG GCACATTGGT GTTGGGGGA GGAAGTGTGG CCAGGTGGCT
 17501 GAGAAGCCAT CTGTCACCA GCCTCGCCTC TCTCTTGATG GGTAGCCATC
 17551 CTTTGGGCA TTCCCTTCAG TCAGGAAGGT CTGGAACAAG AGAAACCCAA
 17601 TGTCCTTCTC CCTAATAAAA ATCAGCCTTG TTTTACTCCT GCCAGGAGTG
 17651 TGTGCTCTTG GCAGAGGTGA AGAATGAGTG TGAGTGCCT GCAGGGCTGA
 17701 GGTCTTCCCT CAATCACAGG GTGAGTTCA GTTTGATCTT GCACAGGGT
 17751 TGGGGTGGG AGAGCTGGTG CTGGTGCCTTG CTTTGGTTAG GAGACTCTGA
 17801 GAGCATGTC TTCCCTGGT CGGTGGGACC GGGCTAAGGT AGCCCCTGTC
 17851 TACCTGCTTG ATGTTGTGTC TAGACACTGA GCCCTGGCT TTTCTTCCCT
 17901 TGTTCCAAGA GGGCTTGGG TGCAAATCAA AACCCCTCTG GAGGGCTTAG
 17951 CTGGAGACGG AAGCTGCCAT TGTTGCTTT GTTAAAATAC TTGAGGTT
 18001 AAGGTTTGTG GTTATTGGG ATCTAGATTG AAAACTGTGT GTATTTTCT
 18051 TTTTAAGAGT TGAGAATGGA AGTCATATTTC TATTCTTGCA AAAAGCCCTT
 18101 TCCAGAGAAT CAGTGAGACC ACCAGTGAGT CTGTGATGCA GCTGACAGAA
 18151 GCGCCTCCCC ACCTGTGAGG GAGTTGGCCT AGCCTCAGAG GTGACAGACG
 18201 CCTCCAGCAC AACCCACGCT TCAGCCCCAG CCAGGGCCT GGGCCCTGA
 18251 AGCATGGCCT GCTTTTTCAG AGGACGTCTC TTCCCTGCT CAGGCTGAAA
 18301 GTCCTCAGTG CTTCTGGTGG CCTGCTTGGC TGGTGGCAGG GCTAGCTGCT
 18351 GGTATAGGCCA GGCTGATGTG CACGGCTCTC TAGGCTCCTG GGAGAAATGG
 18401 CTGCTGTCCT CCTCCCCCAC CATAGAACCC TGTTAACTCT CACCTTGTGT
 18451 GTTTCATGTT GCCACTTTCT CCTCCAGGAT GTTTGTTGTT TTAAAACCCC
 18501 ACAATTGGTT TTTCCTGTTG GGGCTAAATC ACTTTGCCCT TTGCTGTG
 18551 TGCCGCCTAA GGCATCCCCG GCCCTGCCTT TGCTTCAAGT GCACCCCTCAA
 18601 CTCAGAGGGC CCCGGAGGCT AAAATCTGTT TGTTCCCTAG CCAGCTTTGG
 18651 AGCTAAGGGG ATCGCCCTCT CCAGCCTTAA GTTTGCCAC GAGTGAAATA
 18701 CAGGCAATAT AACAAATACCA TTTTCAGGGT TGTCATGAGC ACTAAGATGG
 18751 TACATGAGGT GCCCGGCACA GATTGCCTCC ACAGAACACA ACAGACAGAG
 18801 CTGTGGTTTT GTGTTGTCA TCCCAGAACCC TCAGTCAGTG GCTGTCAAGA
 18851 AGACTGTGCG CCCTTCCCTGA GCCACAGTCT GATGTGTCAA CTTCAGCTGC

18901 TGCAGTTCTT GTCACTGCTG GCCATGGCCA CATATCACGT AGCAAGGCAG
 18951 CCCTCAGAGT GGGAGGGTCC TCTTCCAGT GGAGTGGTAA ATATCTGGG
 19001 ACTGGGCCCA ATATCCTCAG TGTCCAGAAA GCCTGGCACA CAGCAGGATG
 19051 TTCAGATATT TGTGAATAA GTGAACGAGT CAGCCATCTT TTACTATTCC
 19101 TTTTGTCACT GTATGGGTT TGGACAAGGT GTCTTGAGTT TTGGGACTCC
 19151 TTACATAAGA AATCCCAGGA GATAGTCACT GGACTCCCTT GGGCTTCCAC
 19201 ATCTGATAGA ATCCCAGTCAG TTTCAAATCT TCTTAACCTT CTTCTGAAC
 19251 CAGGAGAGGC TTCAGAGAAT CGTATGGAT GTGTGTAGGA ACAGGTGGGA
 19301 CCCTGACTCA GTTGCATCC CCTTCCTAGA ATGGCTTGA GGGCTGCTT
 19351 GGCTCTGACT GTTTCTCTG CAGAGGCCAG CATCACTGGC AGGCAGGCCAG
 19401 ACCCTTGCCA AAACCATGAA TCCAGAGAGT GAAATGTAAA GTCAAACAAA
 19451 TGCAGGATGC TTTGTTGTG CTTAGAATT TCAGGGTCAG TAGAAATAGT
 19501 CTGTGGCTCC GGGGTAGGTG GTGCCAGCC ATCCTCACAG AGGGCAGAAA
 19551 GGAGCAGAAC TACTCTTTA AAATGTCATT AAGTAGGTAT AAGACTCCTG
 19601 ATGGCTTCTC TTAATGCCAG TCTTAGGACA ATTGAACCTGA AAGCTTGT
 19651 GAGCTCTGCT ATCATTTAAA GCTTGCTCTC TAAGTAAAGA GAACAGAACT
 19701 CTTTTTCCAT TTATTTCTCT TTCTGGCCTT GCATTTAAC GTCTTGAAA
 19751 ACTTTGGCT CTATAGAAAA GATGTCAAAT TTCTGTTGGT TCTGCTGATG
 19801 CCACATTTCG AATGTCATT CCAGGTAAAGT AGGCTTCAT GTGGGGATGC
 19851 TGGGAGGTGT CAAACGGGAG AGGCCTGCCA GGCGAGATACT CTAATTAGAG
 19901 TGGCTCTAAA ATATGCCCA TGGTGCCTC TCTTCTCCT CTGCTATTT
 19951 CTGTTGGTT GTTACTGCTG TTCTCATATT AGCATTGAA GAGTGAAGAG
 20001 CAGGCTTCTG GCCGGGTGCA GTAGCTCATG CCTGTAATCC CAACACTTTG
 20051 GGAGGCCAAG GCGGTCAAGT CACCTGAGGT CAGGAGTCAG AGACCAGCCT
 20101 GGCCAACATG GCGAAACCCA GTCTCTACCA AAAATACAAA AATATTAGCT
 20151 GGGCATGGTG GCACACACCT GTAATCCAG CTACTGGGA GGCTGAGGCA
 20201 GGAGAATCGC TTAAACCCAG GAGGCGGAGG TTGCAGTGAG CCAAGATCAT
 20251 ACCACTGCAC TCCAGCCTGG GCAACAGAGT GAGACTGTCT CAATAAAAC
 20301 AAAGTAGGCT TCTCTGCTTC ATGCTTGAGT GTTCATGCCT GGCAGTATGG
 20351 CTTAGGATCA TATCTTGTTG TCCGTAAAGCA GAAATTCCCA TTTGACTTTC
 20401 TCTTATCCCT ACCTAGAGGG TCTCTGAGCC CTGGGCTGGC TTGGCCAATC
 20451 GGGACATCTG GTTGACTTAA ATCTTAGTAA TCAACAGACA CCCACTGAGC
 20501 ACCTAGCTGT GTGCCCTGGCC CTGTACTAAG GCTGGCTAAG TGGTTGAAGA
 20551 GAAATGGGAT TTGTGATTCT ATCCTTGAGG CTTGAGGGCC ATTGGGGTGG
 20601 GGGTGGGAGG TAGGAGCAAT CAGCTGCTTC AGAATGGATT CCAAGTTAGC
 20651 AGAAGGAATC ACCTACATTA GTTAATGATC TTTTCTAGT CTGTATATAA
 20701 TGTCGAAATT AAGATCTCAA CTTTAGCCTA AAGAAAAGTG GGCATATTAA
 20751 TTAAGTAATA AAGAAGGAAG TACATTTTA TTAGAAAGAA GTACATCTTA
 20801 ATAAAGAAAG AAGTCCATCT GCCTCCCGGA TTCCCCACGC CTGGTCCCAG
 20851 GACACTTGTG CTCATAGTCC AGACATTCCC TGTCCAGGTG CATGTGGCTG
 20901 ATAGCAGATC TGGTATCACA GGTTTGTCCCT GGCCCTGGC TCAGCTGTT
 20951 TAAAGTCCTT AAGAGTGCAGG GTTGGGGGCT GGAGGAAGCC GGAAGTCTCT
 21001 AGGTGTCAACC TGCATAGGAT GGACATAGTG CTGAATGCAG CAGCCCTCTG
 21051 GTGCCAGAA CCTCCACCAAG CCCCCCTCCTT TACCGTCCTT CAACACTCCC
 21101 TCCCCAAACT TATCCACCAAG AGCCTGTACT GCTCTGGGAC CTCTCCCTG
 21151 AAGTGGTCTC ACCTGATATG GCTGTGTTCT TGTTGGCTCA GTGACACCTA
 21201 AGCTCTCCCT AGAGGACTTG GGCTGGCAGT GTAGAGGATG TGGGTGCTCA
 21251 TTATTAGTGG TGGACAAGTT TCAGGGCCAG GGGTGGTGT GAAAGAGGGT
 21301 GAAGAAAGGG GCTGTTGAGG TTCTGGACAC CCACAGGGCA GCCACATTCA
 21351 GCACTGTGTC TATCTTATGT GGGTGACACT TAGAGACTCC CAGCTTCTC
 21401 TGTCGTCTT CATCTTGCTT AGGGTACTGC AGCATGTGAC ACTACCACCC
 21451 CGGTGGCCAA AACTGTCTA TTGGAGGTCT TATTCTTGC TGTAGAGTTG
 21501 CACCTTGGTC CAGGTATCCT TCCTGGTCCA ATTGATTGTG GCCAATTGTC
 21551 TTAGGCCATT TAGTGTGCT ATAAAGGAAT AGCTGAGTCT GGTAAATTAT
 21601 AAAGAAAGTA AGTTTATTTG ACTCATGGCT CTGCAGGCTG TACAAGAAC
 21651 ATGGCCCCAG AATCTGCTTC TGGTGAGACC TCAGGAAGCT TCCACTCCTG
 21701 GTAGAAGGTG AAAGGGAATG GGTGTGTGTA GAGATCACAC GGTAAACAGAG
 21751 CAAGCAAGGT GAGAGTGAGA GGTTCCAGGC TCTATTAAA AGCCAGCTCT
 21801 CTTGGGAACG AGTAGGGTAG GACTCACTCA TTGCTGCAAG GATGGCACCA
 21851 AGCCACTCCT AAGGGATCCA ACTCCATGAC TCAGACACCT CCATTAGGCC
 21901 TCACCCCCAA CACTGAGGGT CAAATTGGG CATTAGGTTT GGCGGGGGAC
 21951 AAACATCCAA ACCATAGCAC CAGTTGTCCA GTAATTCTTA GGAACAGAAA
 22001 CACTTTATG ACCATGCTGA CTAGAACAAA ATTATCTGTG ATTCGTTATC

FIGURE 3, page 7 of 188

22051 CATTCCAGAT GAGAATGGTA TATATAATTAA AATCTGAAT TTATTCAAAA
 22101 TGACTGTTCT TGTGTTACAA GTAAAGATGA TCATGAAC TG CACTGTACAA
 22151 GAAATTCTTA TCTGATATCT CACCCTGGGA TTATGAGAAA GAAGAAAGAA
 22201 TCATCACAAA CAGCTTAAAG AATGTGGTGA GCACAATGGT GAGCGGCAA
 22251 TGCAGCACAA AGCATATTTA GTTAGCAGCA CAGGCCAAC CGTGGGTGAC
 22301 GTGAGAATT AGCACAGAAA TGCGCTGGGT GGAAGGTGGG ATTGGGAAGG
 22351 ACCTCTTGGA GGCAGAGGTA CTTGGAGAGG AAGACCAGGA TCTGGTGGG
 22401 CAGAGTATTA GAGTATTAA GGAGGAGTAA CCCTCAGAGT CTAGGTGTAG
 22451 GGTGAAATAG GGCCATATCT GTCAGGAGGG GAAAACGGAA CAGATTGGTT
 22501 AAGGTGGTA TCTGGGTCTG TGAGCCAGGG GATTCACTCAG GGACGTTTG
 22551 GTGGCCAGGA GCAGAACATCGC CTGCTAACAT GCTCATGTAC AAAGAAGGGT
 22601 TGTCTGAGG CCCCAGACCT TCTCCCAAAG CCAATGGCAG GATGCCCTCA
 22651 TGGGCTCAGG CTTAGAGGCA TTGGAAGTCT GTCTCCCAAC TCCCTCTGA
 22701 GCCACACTGT CTCCCTCTC CATTCTCCC TCCTCTGCTT GTTCTCTCCA
 22751 GAGACTGGTC TTTCCAGAGA GCTCTGAGTG TAGCCCTG TGAGCTCTG
 22801 GGCCCCAGAC TGTCTCATT GAGTTCTGTC TGTATCCTCA GGTCTCAAG
 22851 GGGCAGAGCC TTATTGGCTC AGCTTGGGGAA AATATCTTCC CAGATCCATT
 22901 TGCCTGTGGC CAGGAGGCAG GTCCCAGTGG GTGAGGGGCC CTCCAGGGC
 22951 TCTGAGGGGA GGATGTGGGT GCAGGGCTGG GTGGCTCTTG TGAAGGAGTG
 23001 GCAGGAGGTT ATTGTGGGTG GAGGACAGTT GGTGAGGCTG CAGAGCCAGC
 23051 CTCAAACCTC TCAGCAAGCA CACAGAGAAA CGTGAGCCAA GTTGTATAA
 23101 ACATGGGCA TTTTATGGAG TTGCATTTTT GGATCTCAG AGCAGGGGTT
 23151 GGCCCTGGCA GTAAGGCCTG CCTTGTGCTG TTAAATCTT GCTCCCCCTGC
 23201 TTTGTTTGCC TGCCCTCCTC TCCCTGTCTT GTCAGCACCC TCGCCATACC
 23251 CTACCTCACC AACCCGGCCT GTCTGTGGCT GGGCAGCTCA GAAGCCCAAC
 23301 TTATCCATTC CTAGGATGTC CCTGCAGACA GGCTGTAAAA CAGGCTTGGC
 23351 CTCCACAGGC CGACTTGCAT TTTGCCAGTC ACTACCTGG TCCTCCCCCTC
 23401 CATCCTGGTG CCAGTGCCT TGGCTCCTGG GGTACTATGG TTGGAATGTG
 23451 TTCCCCAAAA AGCATGTGTT GGAAACTTAA TCCCCAGTGC CACAAGTTGG
 23501 GTGATGGTGC CTAATGGGG TGTTTAGGTA ACGAAGGCTC CATGCTCCAT
 23551 CCTCAGGAAT GCCGATTACA GAAGGGCTTG AGACTGGAA TTGGATCTCT
 23601 TGCTCTCTGT CTTTGACCTT TCACCATGGG AGTATGCAGC AAGGAGGCCT
 23651 TTGAAAATG CCAGCCCCCTC AATCTTGGAC TTCCCAGACT CCAGAACTGT
 23701 GAGCCAATAC ATTTCTGTTC ATTATAAAGT ACCCAGTCTC AGGTATTCTG
 23751 TTATAGCAGC AGAAAATGGA CTAAGGCAGC CTGTGTCCCC GCCTGACCC
 23801 TCAAACTCAC TAAAGGGGAG CAGGCTTTGG TGCTCAGTTG TGCCCTGTG
 23851 ACTCCAGAGA TACATATCCT GTGGCTGTAG GGAGCTCCTT AGTGCAGCTG
 23901 CTTTGAGGTT TAGCTGGAAT CATTCTGGT AAGAAAGAGG GTTACATGG
 23951 GAGGGGAGTC ATGGCTTGAC CAGATGCCCTC TTCTTAGAAG GTCCACCACC
 24001 CTGCCAATC CAGCAAGCAA AATAGTTGAG CTGCTGTGGG ATAATTGGC
 24051 CTGTCATCAT GGAAGACAAG ATGAGATAGA TGCACCCCCC ACCTCCCCAG
 24101 TTCTGAATCT CAGCTTTGCT CCCAGCTAGA TACAAAGTCT TATTGCATTA
 24151 AAAATTGTT TTTGTTGTG ATATCTCTT CTGTGTAGCC AAGAGTTAGA
 24201 GAGGGCTAGG GAACAGGGGA CATCTCTAGG GTGAGGATGA AAGGGGGCAG
 24251 TGTCTCTGG AGCTCTGGC TGGAAAGTCTG AATGGCTCCT CTTATCCTTC
 24301 TCTTATAAGA ATAAAGAGGA AGATCATGCC ACTGCACTCT AGCCTGGTGA
 24351 CAGAGCGACA GAGCAAGACT GTGTCTCAA TNNNNNNNNN NNNNNNNNN
 24401 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24451 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24501 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24551 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24601 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24651 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24701 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24751 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24801 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24851 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24901 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 24951 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 25001 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 25051 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 25101 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
 25151 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN

FIGURE 3, page 8 of 188

25201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 25251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN CTTAAGGAGG AGGTAAAGATT
 25301 TCCCAGCATT GGCAGCCAAG TTGGTTACTG TGATACCAAC TGTGGTTACT
 25351 GTGAAGGGCT TTTGGAGGGT CAGGAAACCC AGTGGGAATG TGCTGGTGT
 25401 TGCTGACTCT TCCACTGGCC GCTGGAGACA GCAGCAGGGC TGCTGCTGAG
 25451 ATGAGGCCAG AGGCAAGCTC ATGTACTTCT GCTGGAGGTG CTGCCATGGA
 25501 GGGACAGCCT CCTCCTTAGA GGTGGAAGTG TCAGGCACCC CCAGGCACAC
 25551 TGAGTACTAA AGATTGGTT AGCTGTGGTG GCTCCTCAG AGTATGCC
 25601 TTTCATCTAG GTGGATGAGC ACCCCTGCAG TATGGGATGG CCATGGCTAG
 25651 TGAGTGGTCA GAGCTGCCA TGAGTGGAGA GAGGAGGGCA TCTCAAAGGG
 25701 CAGGACAGGG ATAGCCCAGG GACATACAGG GCCCAGGACA GATGAGGTAT
 25751 CTATAACCTGC AGAACGACAA GTGGAGGCA TCCTGGCATT CAAGTGGGTT
 25801 GGAACAAATG AGCCAATGGG CAGCCCCAAA GGCTGAGAGA AAGTCATGGG
 25851 TAAGAGCCTA GCATGGAAGG AAGAAGAGGT GTGAGGGAGC AGTGGTTGACA
 25901 GGGGTTGGCC ATGGCCCAGT GGTTGACACT GTACCAACAG ATGCCCTTCC
 25951 CCCAACCTGT GTCTCCCAGC TGTTGCCTAC TGACCACAGT AGAACTAGTG
 26001 GACCCCTCCC CACTCCAGAG TCTCAGAAAC AATGATGAGC ACTCTTTCA
 26051 GGCTGGGTGC TATGCTGATT GCTGGGGCA CAACCAAGGAT GCTGTTGTG
 26101 GGTGAAATT GGCAAGTGG AAGCAGCTAC CAGATACTGA GTGCTCTTG
 26151 CCCTCCTCTC TCAGCTCTCA CTGCAGTCTC ATAGACACTA CCCTACCTCA
 26201 TTTTGAGAT GAGGAAACTG AAGCTCCTGG AGGTTAATGC CATGTATATG
 26251 GTGACCCAGT GCCGGGGTC TGGGGTGCAG GTGAGCCCC TTGTGTCTCG
 26301 TGCACTGCAA GCCCAGTGGC CCCATTCTCC ATGTCACCGG GAGGCTTCTC
 26351 AGTCCTGGCT GCTTGAGCCT ACTCTTCCCA CCTGCATCCA GTGAGTTCTG
 26401 GATACTGAGC TGGCATCGGT CCTCATGGAA GGCAGTGTG GGCTGCCCC
 26451 AGCCATCCTC TGGCTCCACT GACTTGCTGG GAAGAGAAAC TGGCACC
 26501 GTTTACATTA GTTTCTGTGC CTGTGACACC CAGCTGATAC CCTCTGTTAC
 26551 GAAGGGACAC CCTTCCCCAT ATGTGGGAGT AACAGGGCAC CCTCATTGGA
 26601 GAACCTGCG AGCCCACTGG CACCTGCAGA GGTTTGTCTG AGGCAGCTGG
 26651 GCACCATGGT GCAGAGCACT GGCCAGGGCC ACTGGGGCAA GAGTTTGTAA
 26701 GGTGTTAAGA TGCATGATTA ACCCAGTGGT TCCCAAACCTT GTCCATACAT
 26751 TAGAACCACT GGGGTGGCTT CAAAAAAATGC TGATGCCTGT GTCCCAC
 26801 CAGAGATTGT GATTTAATTG GTTTAGGGTA TGGCCTATAC TCTGGATTAT
 26851 TTAAATGTCC CCATTGAGA ACTGCTGGGT TAGCCTATGA GAGAAGTGTG
 26901 GGCAAAATGC CCACCTCTGT CCTCATTGTC TTTCTCAGCA CCTACTCCTC
 26951 AAGGGAAATA ACTGATTCA GCTGCAGGG ACAAAAGCTTC CCTGTGCC
 27001 TGCCCAGGCA CAAGGCCCCCT CCTGGGAGGT GTGGGGCAGT AAGGCTGGCG
 27051 TGATTCCTGA TGTGGCACGT GTGGGGCAGG TATTTCCTCTA CTTGAGGAGT
 27101 GACATTGCAT GCCGCTCTGCA TGCTCCCTCA TTCCCTTCTC ACGACAATCT
 27151 TATAGGTAGC ACCTTTCAAT CTCCCTCTCA GACGAGGAAA CTGAAGTTCA
 27201 TGGTGCATCC TACGTGAGGA ACAGAAAGAG GACAGGGAAAT AAAACTGGAT
 27251 TTTCCTTGGG ATTCTCAGAT GGGCCAGGTC CTAAGTAAAC ACCAATCTAG
 27301 CTCTGCTGAC CACTGGGGC CTTTCTTCTC TTTGACTCTG TTGAAAAGA
 27351 AAATTGAAAA ACGGTCTTAT TGTGCCCTAA AGCCTTTTA ATTAAATATA
 27401 ACTCATTTAA TTAAACTAC TTAAAGTTC ATTTCATAA TAAGTGTAT
 27451 AGTGTACAA TGAAAGTGC TTCTAATCAA AGTGTGTATG GGGATTGAC
 27501 TCCCTGTA AAAAGCCTGT GGGAGCCCAA ACCAATGATT TATTGACACA
 27551 GCAATCCAAA ATCACAGAC CCTGAGTGA GCACACATGG TGGAGGTCTA
 27601 TGAGTGTGGG TAGGAGTCGG AAGTCCCTCT GGGGGCTGTG CAGATTGAAG
 27651 GAGGCGGGTG TGGAGAGGGC TTAGCATGGA GCCTGGCGTG GGTAAATTGCT
 27701 TAGTAAATGG AAGCTGCTAC TGGGATGCTA CTGCCATCCC TAGGACCTCC
 27751 GCTGCTTCCC CTGCTAGTTC TTACTGCTGG TGCCACAGCT ACAAAAGTAGG
 27801 GAGATGACAG TGAAGAGAGA GGCTCCCCCTG GTGGGCAGGA GGGATTGAAC
 27851 AGTCCTGAGC AGACAAATGT GCTCAGATTG GGTAAATTGAAG TAGAGAC
 27901 CTCCAGTACC AGCCCCCAGG AGGGGGCACGG CCTGACCGCC TGATGTACA
 27951 CAGCAAATCC TTTCCCCCTGT GGCAGTCTAT CCCCCCTTCCCT TGTTTCATTT
 28001 TGCACCGTGG CACTTCTTAG CATGAGGTAT TCTCTACATT TCCTTTGTTT
 28051 GTGTGTTTGT TTGTTGCCG TTTCTTCCAG TGAGATCCTA AGCTTCATAA
 28101 GGACTGGGGC TGGGGCTGCC TTGGCACTGC TACATCTCCA GGACAATAAA
 28151 TATCTACTGA ATGAGTGAAC ACATGAACAA ACGAAGGGAT GATGAAATGA
 28201 ATTGCTCAGG AGGCCGTCA AGAGCTCTGC TGAGAGACCT GGGTGATGGG
 28251 GCTGAGGGTC TTGGGGAGGG TCAAGGAGGT GGGAAATTGCA AGCTAGGACC
 28301 TGATGGGAAG GCATCCACAA AGCTGAGCCA CAGAGGCTGT GAGGGATGGG

FIGURE 3, page 9 of 188

28351 AGTGGAAAGTG AAGAGGGGCC AGAGGGAGATG CTCAGGAGGA CAGAGGGAAC
 28401 ACTAGCTAGC AGGAAGATCC AAGGGGAGGG GACCTATTGC TGTGTCAGAT
 28451 GACAGTTCTC GGTGGAAGT CTTGGATTAA GGGATCTTCA AGTGTCCCTT
 28501 TGGAGAAGAG GGTGTGCCTG ACCTTAAGCA CTGGCCACTT TGGGTGTTTT
 28551 CAGCTTATCC CAATCAGACG CCACCTGCAC CCAGTCCCTGC CCCCAGCCGG
 28601 CCCCTTCCCA GCTTGCACAC CTTCTCAGAG GCTCCAGCCT GATCAATCAC
 28651 CGCTGGCCCC ACCATGACTC TGGCACATT TGTCATCTTA TGTCAGACCG
 28701 TCTGTATCTG TGACTCCCTA ATTCTGTGCA AAACAAAGAA TGAAAATAG
 28751 ACTCAGACAT GAGGACTGTA CTGGAGGGCA CACTTTCTTC CTTTTTGTG
 28801 TTTTAATTCTT CTAGGCACAG GTTATTCTAA ACCTCATCTT GGGCTTGCAG
 28851 TTGGCAGAAA GAAAAGTAGC AGATTGGAAT ATCATGTTAA ACAGGTGGAT
 28901 GTTAAGTTGT ATCATTATTG TGATGGTTCC TGGAGGGTGT AATAAATAAT
 28951 TTAAACATGA ACTCCTTCCC CCTTTCTCT CAAGAGCCAC TTGTCCTTGC
 29001 TGTCCTCTCT CCTCCCCCAG ACACCTACAA GACTGTCATG ATTTTCTTAT
 29051 GGATCATGGA CTGCTGGAAT GAAGTCAGTG CAGGAAAGAA GCTGTTCGA
 29101 TCGACAGCTG GTAGACATGA AGCGTCTCAG AATGAGGAAC GCATCACAGG
 29151 CTGTCCTCTGT GTTCTGTAG AAACCTTAC TACAAAAGGA AAAATAGAGC
 29201 ACGTCAAGCT TCAGTGACAG TCAGTATGTT CCGTGAGCCA GCTGGGAAAC
 29251 TGCACCTACC TCCATATTCTT TACCAAGGAGA TCTTGGGATA ATCTGATTTC
 29301 ATTCTAGCAA TAGAATGTGT TTAGGGCCTA CGCTACGCCA GGCCTGTG
 29351 TGCAGTAAGA CATGAAGGGAG ACGTGGACCC TGGGGGAGAT GGACACCCCT
 29401 CTTGTAGTT AAGTCCAGTA TGACCATTTGC TTTTGGGTT AAGCAGCTCT
 29451 GCAGATAATG CCTGTGTTAG GCTGAGCCCT GCTAGTGTCA GTGGAAATAG
 29501 CAATGACATG TTAATGAGGT TGTCCTCAG GGTGCTGAGT TAGAGCCCCA
 29551 TGCTGCTAAC TGTTGTGATG GTCTTGGACG TGGTGATTGC TCATTCTGAG
 29601 AGATGTGGAT TACTTTCCAA ATCAAAAAGT TAATTAGTT TTAATTGTT
 29651 GGGTTGTCCTG AGAGATAACAA CTGGAAAATT CCCCTCTTGC CTTCTTGGTC
 29701 CCTTAATCTG GCTGTGCA GGCATTATG TTTAACAGG AGCAGTGATC
 29751 AATCAGTTAT TGACATTAT TTCATCAAAT GTAAGTGAAT GTTACTCAT
 29801 ATTGGTGGAT TTGCTACCAA AGACTGTCTT AAATTCAAGG CTAACCTTTC
 29851 TTTTTAAATT GTAAATGAAT AACCTTACG ATAAAGCTTT AAATGATATC
 29901 TAGAATTAA AATCACTAAA TCCTCATATA ATATTICCAA ATCATCTTAA
 29951 TTTCTGAAGA TGGGCACCTA TCCTTTGCT TTCTTTCTG TCTAGTGTCT
 30001 GGTAATCACC ATTAATTCCA TTTCTTTTA GAGTATCACA GCTTCTCCT
 30051 TCACTGACCA CCCTTGCTT CCTGTAGAA AGCCCTGGAC AGAACTCTCT
 30101 GTGGGACTCT GCCCATGTTT CTGAGATATC GCCTCAATTG TCCTGGCTGG
 30151 GCTGTCGGGT CTGCCCGTTT TACAGATGGG CAAACTGGAG TGGGAAGTAT
 30201 CCGGGTGGCT TCCTCAGGCC TGCAGCTGGT GGAGCAGCTA CTGAAACAAAT
 30251 CAGGTGATTC AGATCTACTG GAGGCTTTGC CCTCATGGC ATAATAAAAGT
 30301 TGGTATTCCC AGGTCTGCC ACAAGAAGCT ATTGATGGT TTATCATGTT
 30351 GATTCTTTT TAAATTAGTA AAGTAAAAGA GTACCTTAAT AGTAAAGACA
 30401 TTTCTTGGT ATTTTAAAAA AGTCATGTGA CATGATCTCT TCCCTTTGTC
 30451 TTGATAAACCT CCCCCTTAAA CTCTCTGGCT TAGTTATTAGT AGACTTCCCA
 30501 GCCTCATGTA ATACTGGTTT CCTTACATTG ATCCATTAT TGTCAATTAT
 30551 TGTAAGATAG GCAATAGAGG GGACATCGAG CTTGCTTGCT GTGCTATCTC
 30601 TGTTTCAGCC CCAAAGTGCT GGAGACTTGC ACTGTTTGT TTGTTTGT
 30651 GTTTGTTTG AGACAGAGTC TTACGCTATC ACCCAGGTTG GAGTGCAGTG
 30701 GCGCTCCATT GCAGCCTCTA CCTCCCTGGG CTCAGGTGAT CCTCCACCT
 30751 CAGCCTCACA AGTATCTGGG ACTACAGGT GGCACCCACCA TGCCCAGCTA
 30801 ATTTTCATAT TTTTTGTAG AGAGGGGGGT TTCACATGTT TGCCCTATAT
 30851 GGTCTCGAAC TCGTGGGCTC AAAGGGAGCT TGCACTATTCT TTGCTTATAT
 30901 GGCCATGCC AGCCCTCTCC CCTTCACATC TGGTCTTCTG GGAAGATGAG
 30951 AAAGGCAAGC TCAGCCTCTG CTGATTGGGC AACTCCTAGG CAGGGCTGGC
 31001 TGAAAGGTGC AGGGACCCCT GGCCTTTATC AAACTCCCTC AGCTATCTAA
 31051 GCCCCCTAAGG GTTGTGTT GGCAGCTGT CCTCCCCCAC CTTGACTGT
 31101 TCTTTAAGGC AGTAAGGCCA TCTACCAGGG CTACACACAC CTCTCTCTAA
 31151 CCCCAGAGCC ATCTGACACT GTTCTCTGTG GTGCAGGAGG GGAACACTGA
 31201 CCCCTCGATT AAGTGGCATT TCTCAAGAGC CAGCACCCCT TCGGTGTTT
 31251 TCATGAGCAC TTGCAAGAAC CTCTGCATAA CTGGAGGAAG CAGGGGGTGT
 31301 TTAGACCCCTC CCCCAGAATA CCTGTGTTCTT TGCTGGATTA TTCAGCTTGG
 31351 CTTTCAAAC AGCCCCGGGT TTAGGGTTAA TTCTCTCACC TTCTCTGGCT
 31401 TTGAAGACCC AGACATGGTG TGCTGAGAAA TCCAACAAC CAATAGTTT
 31451 CCTTCTGCCT TTAACTCAGC CATATAAAATG AGATAAAAGTG TGCAAAACTC

31501 TTACTGTGTG CACAGTAAGT GGGAGCCAGC AGTGGAAATAC ATGCTACATA
 31551 AGGCGCCACT TTATTTAGCT GTATTTGTC AGTCCAAGTG AAGATTTAA
 31601 TTGCAGAATA GTGCTTGCT AGCAAAAATG AACCTGCTTA GAGTCAAGTT
 31651 TTTAAAATTC AAGTGAATAA ATGAAAAATT GTAAGAAAGA TTGTTAAAGA
 31701 AGCATTCACT TTAAGAACAT CTCAGATATG AAAAACCTAG AACTTAGATG
 31751 TCAGAATTTC AGTAGCGATG AATCCCAGG CAAAGCTTCC ATCTCATCTG
 31801 TACTAATGG TTCATAAATT GGACACGTGG GCTTCCTTT GTGTGTCTTC
 31851 AGGAAGTGA GGCCTGAGGA ACTCTGAAGC CAGGAGCTTC CTCAGCCCC
 31901 CTGCTGCTGG ATGGAGGTGC TGCCAGTCAG GGGCCCATCT TCAGGACACT
 31951 GGCACAGGGA CCTCCTCAGG CGGGGCCCCCT TGTACAGCGG ACTCCTTTCT
 32001 GCTTTGCTA TGAAGATCTG GCCACGTTGA GCTCCACTCC ATTCTGCTTT
 32051 GTCTACGAAG ATCTGGTCAC ATGGAGCTTC ACTCCATTAA CTTTTTCGTT
 32101 GCATTCTCTT CTCAGTGTGG TTGCTTTGA TCCCCCACTT TCGTAACCCA
 32151 CATAGCCAAT ATTTCCCAG TGAATCCCCTT AATATTCTGG GTGACAGACT
 32201 GAGGCTTACT CCCTAACCAA AGACCTCTGA GAGCACAGAT GGAGAGGCCT
 32251 GACTATGATC TGGGGCAGGG CCTCACCATC CTTTCCAGA GCCTCACCCCC
 32301 CTGTGCCCAA GATGGACATG GGATGGACCT AGGGGTAGAA TTTGAGAGTG
 32351 CTCATTATA CTCTTCTCAG AGCCTTCAA CTGTTTTTG GTAGCTGAGA
 32401 ATCTGTAATC GGCTTTGGA TTATGAAAAA TATTGCTCAG CACTCATATT
 32451 ATATTGATTC AAAAATAAGG ATTGTGTAGT TTAACTGCAT AGTAAAATAC
 32501 AGCTTTATAG AATGGTAATT TTTTATTAA GTTCTTCTAC ATTATAGTGA
 32551 GAGATAACGG ATTCAGGAAG GGCACAATGA GGAATAAAGC TGTGTATTG
 32601 TATTGGTTAA ATGACATTTT AAATGATTG GCTGTCAAC TCGTAGAAAG
 32651 GTTATGAGCA GTGAATGAAA AATCTAAAAT TAATTCCCTG CTTCAAGAAA
 32701 GTGTGATTTA TACTATAATA AAATTAGATT TTTAGTAAA GAAATTTAGT
 32751 CATTAAAGTA TGCCCATGCA CTAAGTCTCA TTTATAACCA TCTGGTTG
 32801 AGCTTCTGCA GAAAATAATT TCTTCCTTAG ACAATGCATC CAGGGCCTTG
 32851 GTGTCATTAT GTCAATGAAT TTCACTCCTT ACATTCTGC TACAGCTTT
 32901 GAGGGGTTGC TTTTTAAGC ACTGGAAAGA TGGATTCTTA TTTAGCCTCA
 32951 ATAATTGAGG AAGCCGTTGA ACTCATTTAC CTCCCCAAAAA TAATCTGATC
 33001 GTCTCCCTCT CTTAGCTCTT TTCAATGAATG GTAATGTTGT TGATGATGGT
 33051 GGCACATGTT GGAGGACTGC CTGTGTGCTG GACACCAGTC TAAGCATGGG
 33101 ACAAGCTTAT TATTATTCA TTGATCATC ACAACTACTC TATGTGGAAT
 33151 GTGCTATTTC TGCCCTTACA GATCAACAAA CAGAGACTAA GGAAATGTTA
 33201 AATAATTCAA CAAAGGTGAC AGAGGCACAG CTGGCCCCCA CTCTTAATCC
 33251 CTGTCATATT TTTCACGAAT GTGTGTTGAG CATTTCCTG GAGGAAGTAG
 33301 AGTATAGTGG TAGGACCTCA GAGGTTTGAG TCTAGTCTG ATGTGGCCAC
 33351 TTCTCATGTG AAATTCAAGCA AGTTGCAGTC TTTCCCTCAG TACATCTTC
 33401 TTCACTGTGAA ATTAAAAGT GGGGTTTGTG CCCTCTATTAAACAACTTC
 33451 TGATTACTCC TGGGTAAATT GTCTTATTAA AAAAATTAAACTGGAGCAT
 33501 ATCAAATATA TAGTAAAGAC ACATATTCTG AGTGTAGCAG TTGTTAATA
 33551 TTTTGTAAAGT GAACATATCT ATGTGACCAC CACCAAGATG ATAATATAGA
 33601 ACATTCCAG CATCCCCAAC ACCATTCTGT GTCCCCCGGT CATTATCCTC
 33651 GCAAAGGTTA CTACTCATCT GTCATCAGAG ATTGGTTTTG CTTGTTCTG
 33701 AGATTATATAA AAATAAAAATC TTATAAAACTG TACTATTGT TTCTGTTTC
 33751 TTTCCCTCAG CGCTATGACA ATGAGATTCA GCTACATTAT CACATGTTGC
 33801 AGAGTTTTT CTTTGTCACT GCAGTGAAGT TTTCCATTGT ATGGATATGC
 33851 CACAGTTAT CTGTTCCACC ATTGGTGGAC ATTGCAATTA CATTATCATGC
 33901 TGCATTCAAGC CTTCTTATAC ATGCATTGGT GTGCTCACAT GAATGTACTT
 33951 CTGTTGGACA TTTACTTAGG AGTTAAATTG TTGGGTCAAG AACATAGATG
 34001 TCACAATAGT TATTTAACAA TAATTTAATT ACAGGAAATT GGTAAACAG
 34051 ATATTAAGG ATTAAGAAGG TGGAAAAGGA AACACTGCAA TAGTTAAGAG
 34101 CAGTACCTGC AGGAAGGAAT ACCTTTATCA CTACTGTCTC CAGGGGAGGA
 34151 GCCTCTCCAT ACTGGGACTC AGACCAATGA GGAAAGTTT GCTGGTGCTG
 34201 GTTCCTCTGA GGGTATAAAA ATTATAGTTC CTTCATATCC TTGAAACAT
 34251 TTACTATTAA CAGTTTTTA ATGTCATCTA TTATATGTTGG TTTATAGCAG
 34301 TATCCCACGT TGTTTCAAC TTGTGAAGTG CCTATTCAA TGTTTACTC
 34351 ATTCTTCAAT TAGTTTATT GTATTTTCT TATTGATTG CAAAAGTATT
 34401 TTATATATTC TCAATAAGTC ATTCGTAAGA TATATGGATT GCAAATATAT
 34451 TTCTTAATG GCTTCCCTT TCATTGTCTT GATCCTATCT TTTAATAAAC
 34501 AGAAGTCCTA ATTAAATAA AGTCTGAGAT ATTCTTTGG TTGCTTTTC
 34551 ACATCCTCTT TAAGAAATT TCACCTATGT ATTAAAGTC ATGAAGATAC
 34601 TCTTGATATC TTATAGAGAC TTAGTTGCAT TACTTTCAC ATGTAGTTCT

34651 ACAATCCATC AGGAAATGAT TTTTATGTAT GTTCTAAGAT ACGTCCAACA
34701 TTTTTCCAT GAGGGTGCCTA TGATGTGTTT AAACCTTGCTT ATGGCTCAGC
34751 ATACGGCCAA TTTTATAAAA TCTCGAATGG ACACATTGAAA TGAAGTGCTA
34801 TTTGGTACAG TGTTGATGT CTGTCAATTAA GGTCAAGTTT TAAAATTATA
34851 GTGTTCAACT CTTCTATATC CTTACTGATG CTTTTTCCTT CTACTTGTTC
34901 TATCAGTAA AGACAGAGAT TTTTAAATT TTCCAACCCT TATTGTGGGT
34951 TAAAAAAATT CTCCTCTTAG TTCTTGAGT TCTGGCTTTG CATATATTAA
35001 GACTATGCTA CTAGGTATGT ACAAGTTAG AATTGCTATA TATTCTGTT
35051 AAGTTGTCC TTTCTTAATT ATGAACCCTC CCTTTTATC ACTGATAATA
35101 ATTCTTGCT ACTTTATCTA TAGCCATGTT TTCTTGTTG AAGTTAATAT
35151 GGTTTATCAT TAAATTCTT TACATTCAAGC CTTTTGTAA ACATATATT
35201 ATGATATGTC TCTTGTTAGGC AGCATATAGT TGGATATTGT TTTCTCTATT
35251 ATGCCAATCC TTGTTGTTT TATTTTTTAT TTATTTTTT TGTGTTGTT
35301 TGTTTTGTT TTTTTGAGA CAGAGCCTTA CTCTGCTCTCC CAGGCTGGAG
35351 TGCAGTGGCG CAATCTGGGC TTACTACAAG CTCTGCTCTCC CGGGTTCAAGC
35401 CCATTCTCT GCCTCAGCCT CCCAAGTAGC TAGGACTGCA GGTGCCAAC
35451 ACCATGCTG TCTAATTTT TGTATTTTTA GTAGAGATAG GGTTACACTG
35501 TGTTAGCCAG GATGGTCTCG ATCTCCTGAC CTCGTGATCC ACCTGCCTCA
35551 GCCTCCCCAA GTGCTGGGA TTACATGGCAT GAGTCACCTC GCCCAGCCCA
35601 ATCCTGTGT TTTAATGGGA TTATTCAAGC AATTTATAGT TAAATAGGTT
35651 TAAATATAAA CCCATGTTT CTCTGTTCTA TATTCCTTT CTCTCTGCCC
35701 TTTCATGTCT TCTTTGGAT GAGACAGTTT TGGTTACTTC ATTCTTTGG
35751 TGTCAAGCA CTAATTTCGC CATTGGGGAGA ACAGTACTAG GACATTATAA
35801 CACTTTAATC TCATTGACC TCCTGATCTT TTTTAAAAAA ATCATATTAC
35851 TATGTTTTT AGTTCTACAA ATATTTTTAT CTTACAGTGC ATTATTGTTG
35901 TGTTAAGTAG CCGAAATGTA TTTTTATGGT TTTTTAATG CTTTTGGTG
35951 CTCATTATTT CTTCTTGAT AGCTATACAT TCATCTGAAT AATTTCTGC
36001 GTTTTGCCCT TAAAAGTCG CTATAAGTA TTGCTCTTAG TGTAAATTG
36051 TTGGCAATGT ATTCTCTCAG GGTGTTTTTG TCTAAATATC TGTATTTAC
36101 CTTCATTAT TTTACCTTAT GAATACCCAT ATTTCTATTG GATTCTAATG
36151 TTTTTTCAA ATTTAAAGA TGGTGGGTAC TATGCTTATT ACCTGGGTGA
36201 GCTTTACACC AAATCCCCAA GACATGCAAGT TTACCTGTAT AGCAAATGTG
36251 CACATATACC CCTGAACCTTC AAATAAAAGT TAAAAAAATT AAAAACTAAA
36301 GATGGCATTTC CATTGTCTTC TGGTCCATT ATTTCTACT GAAAATCAG
36351 CTATCCCCTACT TACTGTTGCT CCCTTATAGG CAATGTCTC CCCATCTCTA
36401 CCACCCACCC TTTGGCTGTT TAAAGATT TCTATTGTC TTTGAATATT
36451 CAACTTTTACTGAGTACT TAGGTATGGT TGTGTTGTA TTTATCTTGC
36501 TTGGGGCTTG TGGAGATTCC CAAATTTCTG GCTTGATGTC TTTCTTACTG
36551 TTTGGAAAAG TATCAACAAAG CGTCTCTTC AGTATTGATT CTGCCATT
36601 TCTCTGAATT TTCACTCTGA AAATTTAATT ACATGCTTGT TAGAACTCTT
36651 CATGATGTTA CAGTGTCTCA TACTTTTTCT GTATTTTCA TTCTTTATCT
36701 TTTTCCCTT CAGATCTTCT GTGTGGTTAA TTTTTACTGA TCTAGCTTCC
36751 ATCTTACTAT TCCTCTTCTC AGTTGTGTTT AATCTGTTGT TAAATCCACC
36801 TATTGAATT TTCAGTTATT TCATTTTCAG TTATGAAATT TTTGTTGAT
36851 TATTTTTGTT TTATTTGTT TCAATAGGT TTTGGAGAA CAGGTGGTGT
36901 TTGGTTACAG GTTTTAGTG GTGATTTGG AGATTTGGT GCATCCATCA
36951 CCTGAGCATT TTACAGTGTAA CCCAATGTGT AGTCTTTAT TCGATTCTAG
37001 TTTTATAATG AAATCAGCA TCTTTCTCC TATTTCTTA AACATATTAG
37051 CCATAGTTAT TCTAAAGCTT GTGCCAAGA ATTCTAAGAT CTGGATAACA
37101 TGTGGCTCTG TTTCTGTTCT GTGTTTCTT GGATTTAGC CATCGATCC
37151 CATTTCATGC TATGCCCTGGT AATTTTAGAC TGGATGCTGG AGATTATATA
37201 TGAAAAATTG TAAAGCCTGT GGATCACTT ATAGATTCC ACAGAGGATT
37251 TATTTTTCTT TGTAGACAG ATAGAGTCCT GGAATATCAT CTTTATCTAC
37301 TCAAGAATAG GAATAATTG AGAATATATG GTCTTAGCAG TAAGTCTGCT
37351 GCATTTGTCA GGGCGACTAT TTCTGGAAA GCCTAATTTC TGTCTCTTA
37401 GTACCATGTA CTTTCAAAT CTATACTTAG ATTTTATTAT TTGAGGCTTT
37451 TTTTTCTT GTTCAAGGCT ACTTTTAAC TTGTTCTCA GCCTTTGCC
37501 CTTTATGTGT GTAGCTCAGG CATAATCATA TAACTCAAGG GGAAGCCGAA
37551 AATGTTGAGC TCACCTCTT CTGGTTTCCT TTTCCAGGGT TTCTGACCC
37601 CAATTTCTGG CTTCTTGGT AGCCTTGCAC TCTGATGTTT ATTCCTCATC
37651 TCAGAGAGAC TTCTCTAAGT TCTAGAATAT TATATTCTGT TTGGCTCTA
37701 TGCAAAACAG CAAATGTCGC AAAGGGGAAA TGTGGCAGTG AATATGGGGC
37751 TCATCTCAAT GGACTTTCT CTCATAACTT TCCTTAAAT TCTGGCTGCT

37801 TTTGTTGCTG TTGGATGCCT TCAAAAACCTT TTTTTTAATT CCACCTTTAT
 37851 AATTGTTGAT AGCAGAAGGA TAGTCTCAT ACAAGCTACT TTTTTATGGC
 37901 ACAAAAGAAGA AGTTTATCTC ATAAAATTT CACAATGTCC CTAGGAATTA
 37951 ACTATCATGA CTATTTTAA AGTTGGAATG CTGTGTGCAT AGGCATTGGA
 38001 ATCAGACTT GGGATTAAA TCTTAGCTGG CCACCGACCA AAATATGAGA
 38051 CCTTGGACAA GTTAAACCTC TCCTCCCTT CAGTCAGTCT CTGAGAAATG
 38101 AAGTGGAAAGA ACTGGGAGGC TAAGGCAGGA GAATCACCTG ACCTGGGAGG
 38151 CAGAGGTTGC AGTGAGTCGA GATCGTGCCTA CTGCACTCCA GCCGGGGCCA
 38201 CAGTGTGAGA CTCTGTCTCA AGAATAAAAA AATTTTAAAA TAAGATAATC
 38251 CTATTTTAT TTAAATTATT TCAGAGTATA ATAAAAGGAA AACCTCCAAA
 38301 TTCATTACAT AAAGTTGGTT TCATTTTAAT TTCTTGTGTT TTGTTTTTT
 38351 TTGAGAACGG AGTCTCGCTG TCTCCCAGGC TGGAGTGCAG TGGCGCGATC
 38401 TCGGCTACT GCAAGCTCCA CCTCCCGGGT TCAGTCATT CTCCAGCCTC
 38451 AGACTCCCGA GTAGCTGGGA CTACAGGCGC CCACCACCCAC GCCCGGCTAA
 38501 TTTTTGTAT TTAGTAGA GATGGGGTTT CACCGTGTGTA GCCAGGATGG
 38551 TCTCAATCTC CTGACACCTCAT GATCGGCCCG CCTCAGCCTC CCAAAGTGC
 38601 GGGATTACAG GTGAGAGCCA CGCGGCCCGG GCAATTCTA AATCTGATAA
 38651 GAAAATATG AGATGGTAG ACCAATCTCA TTATGAATA TCAGTACAAA
 38701 AAATTATAGA CCAAAATAG TAAAACATAT TTAAAATAAT AAACAGAAC
 38751 CAGCAGCATA TTTTAAAAG TATATTATGA CTAAGAAAAG CTTGTTTTAG
 38801 AAATACAGGG GTAGTGGAAAT ATTATGAGAT CTACTATGTA AGTCATCCTA
 38851 TTAATAGAAC TAAGGAGAAA ATCATATGA TTATCTCCTT AAATGCCAGA
 38901 GAAAAGTACT TGATAAAATC CAACACATT ATTATTTTTT ATTATTTATT
 38951 CAACAAATAT GTATTGAGCA TCTGTTCTGC TACAGCACTG ATGATGCAAG
 39001 AGTAAAAAAG ATACTGGCGC CATCCAAACC CACATCCAC TAGAGGGAAA
 39051 CAGTCATAAA ACAAAATGAGT AAAGGAACAA GCTGTTTTTC AACTAGCACA
 39101 TACATTTATT TTAAAACCTC AGTAAAATGT ATATTGGTTT CATTAAATATA
 39151 ATAAACATAT CTCAGGCTAA AAGCCAGCCT GTCACTTAAT GGGAAATGC
 39201 TAAAGGTTTT CTTCTGAAAG CAAAAGCCAA GACAAGGGTG CCCAGTATGA
 39251 ACACAACGCC TAACATGGGT TGAGAATTGG TTAAAGCTCT AAGGCAAGAG
 39301 AAAACACCTG GAAGTATAGG AATTGGAAAG AAGAGATAAG ATAATTGCTG
 39351 TTGCAAATT ACATAAAATAC TCAAATGGAA ACCCCAAAAG AATCAATGGA
 39401 AAACCTATTA CAAACAGTAA AATTAAACCA AGAAGCTGGT TATAAAATAA
 39451 ATATAAAAAA TATTTTAAA TTGCCATCAA ATATACAAAC AAAAATCAGC
 39501 TGGAAGAAAT AATAAGAGAA CATCCCAATT ATGATAACAA AAGACATACA
 39551 AAAAAGAAAT ATTCAAAATA CGCACAAGGA AAACTATAAA ATACTCTTGA
 39601 AAGAAGCAAA AGTAGACTCA ACAATTATT AAAATCCTGT GTTATTAGAT
 39651 AAGAACATGC AACATTATAT AGATGTCAGC TTTCCCTAAA TTAATTTATA
 39701 AATTTTATGT AACACACAACA AAAATTCTAT AGTTTTTTTC TGGAGCTGAT
 39751 TATGAATATC TCCTGTTCCA TGAATACTAG TTGTTTCAAG AACAGAGGT
 39801 GCCAGGCCTT GGAGCAGGTT ACTGAGGAAC AGTTTGGGAG GAGCTGGGTT
 39851 TGTTTGTGC AAAATACGCT CTGTTGGCTTA TGTTTCTGC ATTAAACCTG
 39901 TCATCTCTAT GCCGCCCTCT CTGAACCCCTT ACCTGATGAG TACTCCTTCA
 39951 GGAACCAAGAG TTTGGTTGT GTGATGGGCT GTTGGCATGT GACATGGATC
 40001 TTCCACTGAT CTCCACCAGG GCTTTTGCT CAGTAGAAAG GTAGCAGTC
 40051 GGGAAATGTA TTTGGGTAGG ACAACCTTC CAGTGCCTC TTAGTTCTAT
 40101 CTCTAATATT GCCTCCCCCT TCTGACAAGA GGATGCTAGA CAAGAATGCT
 40151 AAGGTGTGAA AGACAATGCT ATTACCTTA AAAGCACTGT TGCTGAATTA
 40201 CCTTCTTGGC TGCGGTGTT AGGTGGTAGT CCCAGTTGG TGTTTCTCT
 40251 TCTCTTCTT AGTTGCTAGT ATGGACTTTTC AGCTTATTAA TAACCTTCTAG
 40301 CTTTTTATCC AAAACATGTC GTTTATGATG AATTGGAGAT ACTTTATATT
 40351 AGTTATGAAA CTGCAATATG CATTCTAGT CTTTCCCCCC ATTAGTTCTC
 40401 ACCAGGACCTT TTCATTCTTC TAGAGCTACC CTGAATTTC ATACCACCA
 40451 ACATTTCTCT ATGCTATTCT CTCTTCTGTG TCCACCTCC CTCCCCCATT
 40501 TTGCTGTGAA AATCTGCCTG TTCTTCAGTG CTATTTCAA AGGTTCTTTT
 40551 AAAAACACTT TTCCCTTATGT TTCCAACCTGG AATGTGAAAT GCTGGTATTT
 40601 ACAAGACAAA TCACCCCTTC ATTTCTCAGT AATTGGTTT TGTTCTGTGG
 40651 CCCCTTAATC AACTGTGAAT ATCAATGCAAG GTACTCAGTT TTACCTGGGT
 40701 AACTTCTGAA ACACCTTGCT TATTGCCCTG CGCATAGTAA GCATCAATAA
 40751 AGATAGGATT GAATTAAAGAA AACCCAAGGG CTTAATTAG TCCAGTGGCA
 40801 TGAACGGCT ATCCAAATTG TTCATAGGAT CTCACCCCTT GGAAACTATA
 40851 AATTGTGTTT AATCTATTAT CAGGTGATGT CAGTGACATA TCCAGTAGCA
 40901 GTGGTGGTCT TCACCATAGC ACCACAAAC AGAACCTGCT GCTGGCCAGA

40951 TAATTTAGC CCATCTGCTT ATGTTTCTT CAGTCCTAA AAGCACCTAC
41001 AGTCAGGCA GAGGGTGGGT CATCAACCTG GAAGAGGGTC TTCCCTAAC
41051 CTTGGTACCA GCCCATACTC CAAATAAGGA AGGCCCTGAG AATGAGCTGT
41101 GCTCATTAAA AACTTGTGA TTAACAGGAT TTTTTTGCC TAAGCCCTCA
41151 AAGCAACAAG TTGTTTACAT TTATAGATGT ACATGTTGAG AGTTTAGTAG
41201 ACCAACATTG CTCAGTGTCA TGTTCTTCGT AGATTGTTCA CCTTTTCATA
41251 AATGTGTGAC TAACAAGAGA GGAGATATTG GCAAGTATCT GTACATATGA
41301 ATTATTCTTC AGAAAACACA AAGTCTTCTC TTTCTTGCAG GAGCCCAGAA
41351 GCTTGAAGT CACAAGAAGA GAAGGTAGGA AAAATGCACT CATAACCCATT
41401 TTATTTTCAG TGTTGACATT TTGAGTAG TTTGCTGAAA CTAAGATGAA
41451 CTTCAGACTG TGGGCAGCTC ATTCTTGTAA ATTTCATGCG GCCTTTCTG
41501 GGTGCTGACT GCTTAGCACT TGTCTGTAGG GACTGCATGG ACTGAAGGCC
41551 AGGTTGCTT GTGAAAACTA TGACTTCTAC CTTCAAGTAC CAGAGGTGGG
41601 ATACTTGAAG AACTGGCTCA TTCGCAATCA TGTTTTGGT CTCTTAAGAG
41651 AAGCCTCATT CTTGAGTGAA GTTGGAAATA ATTATTAGTT TTACCCAGCA
41701 AAGCAACGTG ACAACACCAA AAAATGGCCT ATGGTTGTG GTATTTCAAT
41751 ATCTGGGAG AGATGCCACT GTGAAAATA TTTCTGAATA GATTTCTTAC
41801 AGCTTCAGCT AAGCTGAAT AGAAATAACT AATTAATTCT CTTTGAAA
41851 ACAGTTCCAT GATTTCTGT TTCCCTGAGC AGAGTCCCTG TAGCACATT
41901 GTTTATGGT CTCTGAGGTA AACATATATG GGTGTTACTT TCAGAAATCT
41951 TTTAGTGGAA ATTGAAGTTT CCCTTATTCA TTTTCAGTAA TACCTAGTCT
42001 CTAATAAGGG ATGCCCTTG TATGATTGT GGAATCATTAA ACAATCATCT
42051 TTTTATTACA TGGATAGAAT GATGAGATCA GAAACGAAAAA TGAGTCCCTG
42101 GTCTAGAATG TGGCTTGGT TTTACCTTC ACCACATCCT TCTCTGTGGT
42151 ACTGTCTCCA AAGAGGGAGA CAATCTAAA GAAATTAGCA AATTCTATAT
42201 TGACTACTAA ATCTAACATT GCTTGCCTC CTGATTAGTT CTTGTGTAT
42251 GCAACACAGC AAAAGACATA GAATGGCTAT GTTATCAACA TGCTTGATA
42301 CATGGATATT CATGCCCTGGG ACCTTGGTAA CACAAACCTT TCACACTATA
42351 TTGAGTCAG CTGGTAGTGT GCTGCTGTCC ATGGTGCTGG ATCCCTAGGG
42401 TCATAGGATC TGGATAATCT GACTCTAAGA TGAACTTCT GGCTTACATT
42451 CCCATTTGCC ATTATCTTCG GCTTCGGACT CGATGTCCTC TGAACATAG
42501 GACAATATGT AAAGCAAACG GCATTGTTG AATATCAAA CCAAATGGAT
42551 GAAGGTTGAT GGAGCTGGGA AGGAGGTTT TTATGGAAAG TAGTGTTCAC
42601 AATGGGTACT GTGACCAGTGT AAGTTGGAAA GAAATAGCCA TAAGGAGAGG
42651 AGAATTGAC ATGAACATTG GCTTGAATA ATATTCTGTT TATGCCAGAA
42701 TCCCGACTGT GAATGTTGG AATTGATTG CATTGAAAA TCACATATAA
42751 ACTTAACCTT TTTGGAATCT TACTGTCCTT GTGTTGAAA TGTCTCTAAT
42801 AAGGCTGGGG TTATAAAAGA GCCATGTATT TCTATTCAAA TGCAATGAAA
42851 AGGTCTGAGT GAACTTATGA CTTCAAACTC CCAGAAGAAAT GAGAGTGTCC
42901 AGAGGAGGAG TGAAGGTGTA GTCAGGCTGC ACTCCATTCA TCTGTAACCT
42951 CTCCACCGCT GGAAGTGTCA GCCCTTCGCAA ATGGTTGACT TAGGAACATA
43001 CACTGTGGGT TTGTTACTAGC AAATTTGTTT TAACATCACA GAAACTTTTT
43051 TCTTCCTATT GTGCACTGAT GTCTTTCTTG CTTGTTCTG TCAAAGTTGA
43101 ATGTTTGAGA GTTCTGTAAA TAGCCCTGT CTGTAACGTC AATGCTTACA
43151 ACCTGGCAGG AAGAAAAGGA GTGGACCTT GCCGGCTGGT TCTAAGTATT
43201 TTTAGGTCTG GGAATTCACT GACTCTGA CTTGGTTGTT GGGGTTGTTA
43251 ATCTTCTCCA GAACAGTGTAA CAAGTATAAA AAGAATAGAA GCACTATGGT
43301 GCTTCAGTAA ACTATTTCTG TGTCAGGAA AAGTAAGATA TTGCTTAGCA
43351 ATGAACACCT GGGTTGGTTC CCAGCTCTGA CTCGACCCCCG GACTGAAAGA
43401 GGAACAGATG AGTAATAGCT GATTTTTCTG CACAGCTTAC AAGGCCAGG
43451 AGAGTCTAGA AAGTCTTCAG GTCTAGAGAG GAAGCTCCCA GTCACAGAAC
43501 CTGAGGAGGT TTCTGTGTTT GATTTGCCCTT ATTTCAATAC TGACCTGAC
43551 TCAGGAGCAT CCCCTCCATT GAAGGTTAG GGCCACAAAT GGCTAACCAA
43601 CTGCAACTTC ACATTATGTG ACTTTTGAA ACTCTGACT AAGTATGTGT
43651 GTTGAGAAGT GAGAGGGGCT AATGTTAGCA GTGGAAATCG AGTCCAAGCC
43701 AAATCATAGT GGGAACTAGC GACAGTAGGG CCAAAGTGA TGCAATTGTT
43751 GCCTTAAACC TGTCTCTGC CCTATTTCCC CCTCTTCCCC TCCAGCCGTA
43801 GATGTCATGC AGTCTAGCTT TCTTGCCTCT GGCCTTAGAC TATTCTGCA
43851 TGCCTTGTC CTCATCCTTG TCAAATCCAC CTCCCTTCA TCCTTTCAA
43901 CTCTCTTCT TGAAGTGTGTT AGCTTACCTT ATCTAATTGG AGAGGGAAGG
43951 GCTCCTATCA GGTTAATTTC CTGAGATCAG AGACCCCTCCT GCCTTCTTCA
44001 TCCCCACATT CCTCACAGCT CTAGGCCAGG GCCAGTAGTT AATCAACAAAT
44051 TGTTTCTTAA AGTAAGTGCA AGCTACACAT TTGCTTGTG GGTGTTGCCT

44101 TTTCATTCTG GCCCTTCCA GTAATATACA AGTGAGGCAC TGGGCCCTT
 44151 GGTTCTGGAA AGGCACCTT AAAGAAATGT TCTATGGCTA TCATTAGATT
 44201 TTCCCTGGCTG ATGCACTGAA GAAAATTCAA GTAAGCTTAG TATTATGGGT
 44251 TGAATTGGT TCCCCAAAAA GACATGTCAA AGTCCTAAC CAGAACCTGT
 44301 GAATGGAACC TTATTTGGAA ATAGGGTTTT GGCAGATATA AAGATGAAGT
 44351 CATAATGGAT TAGGGTGGGC CCTAATCCAA TAGTGAGGTC CTTACAAGAA
 44401 AAGGGAGAAT TGGACACAGA CACACAAGGA GAACATCGT TGATGATGGA
 44451 AGCAGAGAAT TGCTGGCAA CACCATGAGC TGGCAAGTTG CAAGGGACCC
 44501 TCCATCCCTA GAACCTTCAG AGAGAGCATA GCCCTGCCAG CCCCTTAATT
 44551 TTGTACTCCC AGCCTCCAGA ACTGGGAGAA AATCCATTTT TCTGGTTTA
 44601 AGTCACTTAG TTTGTGGTT ATTATGGTGG CCCTAGGACA GTAATACACT
 44651 TGGAAAATGT TGGACTCAGT AAACTTTAGT TTTCATTTGT GTTGATGATG
 44701 ATGATATTTT GACTGGAGAA TCTCTCATGA TTTTTCATAG ACAAAATGTC
 44751 ACTCTCAACA GGGAAATGTA TATGCAGCAT TTTCCAAACT TGGTTTCTG
 44801 TGGGATTAA CAAAATTAAAT TGTGTTGTTT TTAACCATCT CAGGGCAGGC
 44851 ATTCCATGCA GTGCCTTTG CAAACCCCTGC CCTAGAGAGC CCAGGAAGAG
 44901 GCAGAGCTTC CTCAGAGTGC CCAGGCACCA GACTGTGCTC CATGGGCTGT
 44951 GCATGTACAG AACAGTGTGA CAGCAATAAT AAGAATATCT TCTTGGTTGT
 45001 TCTGATGTTT TCAGAGAATG TTCACGTTCT TTACCTCCCT TTCCCTTGAG
 45051 TAACCTGTGA CACAGAGCAG ATAGCACTGC ACACATGAGA CTCCTTCCTT
 45101 TTCATGTTAA TTTTAGTAG GGTAGGAGAA TGCTTCTGGG CTGGTGCCTC
 45151 TCTGATGCC C TGAACTCTC TTTAGTGGGT GGTGGTGCT TAAGTGAATT
 45201 GATCTGCTT CATCACATCC AAGGGTGTGTT GTACCTTATG TTGGCTGCCA
 45251 AGCCCAGAGA GCTGAGAGGG ACTTGCTGGG GGTGCTTTGT TTCCAAGTTA
 45301 GATTGTGGG ACTTGAAGGT AGACACAGTA GCAAAGATTG TGGCAGGACT
 45351 ACGAGACTGA TAGGGTGTCC TCTGGGAAGG GTGCATGCCT CCCCAGGG
 45401 GACAGAGCCA TTCCCTCCTTC AGGACAGTTC CGTATGACCC TGGATATTCA
 45451 TGCCTGGGAC CTCCCTATAT GAGCTGCATG GGAAAGAGTG ATGGCTGCAT
 45501 CTCTCTGTGC TTTCCAGTGC AGGTATTTTT ATAACCTCCCT CCAGACATCT
 45551 AAAATTAAAT TTCACCCCTT TCTGAAGCTT CAGCAAAAGG TGCCACCCCTT
 45601 ACCTTCTAA GATACTCCCG TGTCCACTGT GAGGGCCAAT GCTGATTGCG
 45651 ACTGCCAAA TTCATCTACT CAAACCAGTA CTTTCTCTG ACTGTTCCA
 45701 TCATGTTGAA TTACAGCCAT GAGCGAACAC TTGAGTAAGC TGAGCAAATG
 45751 GCTGGATAA TTCAGCCCTT GTCAGCCATC TCTGAGGAGC ATAGGGCGAT
 45801 CTGTAAGCTA TTCCAGATGT CCGTGATTGT GCTGTGATTA GGGGCTGCGA
 45851 GTTGGGGAT GAGCACCAAT GTCATGTTGC ATTGCCACC TCCCAGCGCT
 45901 GGCTCCCGCA CATGTTCCAG CCCTGTCCAG CCTGGCCTGG CTTCTAGCAA
 45951 GGCTGTGAGG GAACCCGGGA GAGGGGGCT GCTGCTGTCT TCAGGGAAAA
 46001 GGAAAAAAGG GGGTGACCAT CACATGCACA CTCAGCATGG CTCTGGCTCC
 46051 TTTGCAGTGC AGATCTCTA AGCAAACATG ACCTGCCAGT CCCGAGTGTG
 46101 AAACTAGAGC CTCACTTTCT GAAAACCCGT GGAATCGGTG CCTAATTGGC
 46151 AGCTGCCTCC AATAGCCCCCT TTATAGTTCT CTGCATCTGG GTGAACTTCA
 46201 GCTATCAAGA ACTGCATTCT GTTACCAATT AATTTTGATT TTGTTGAGCA
 46251 GATGTTTCT GGATCTCTCA TTCCCTGCCC TAATCTATCT TGCTATAATG
 46301 TGAAGTGGCT GACTGTCTTC AATGAAACAG AATTAATAAA CTCTTAGGTT
 46351 ATTTGGGGT AACTCTTTA ATAGCTGCAG ATGTAGGGAA TTAAAAGGG
 46401 AGCCATCCAG ATTTGACAGT GCCTGGAGGCC GTGGGCTTT TTCAATTCAA
 46451 GACTGCCATC TGGGAAAGA GATGGCTTTT CCTTCCCCA TGCCACCCCTC
 46501 TCTCACATGC AGTGAGGCAC TGAGTGTCT TCTACAGTCA CTGGGCTCAA
 46551 AGAAGTTGAG AGTGACATCT ATCTCTGTG TCCCAACCTC ACAGAAATTG
 46601 GCTTTCTG GTTGCCTTG CCTTGTCTCA GCTGCTGGGA AACTATATTG
 46651 TGCTTAGTTG CCTGAAGTTG ATGGGAAGT GCATGGTGCA CCTAGCCGAT
 46701 GTGCTCTGCT TAAAGTAGTGA TTTGGTCCCC AGTTTGATC ATGACCAATT
 46751 GGTAGGCAGC TTACTCACAG TGTGACTTCA GGTAAGTTAC TCAACCTTAC
 46801 CTGAAAAGG ATGCGGGATAG TAATAGTACA ACCATCAGT CCCAATTCTG
 46851 AGTTGTAGAA ACCCAACTTG TGCTGGCTGA AGCCTGAAAG GCCTATGAAG
 46901 CTGCAGAATC TAAGGGTGGAA TCTGGCTTCAGAAGACAGTG ATAAAAGGAT
 46951 TCTCACACTC ATCCTGTCTT CCTTCTCTCC GGCACATTGG CCTCTTCCAG
 47001 GTAGCCTCC AGGATGGCCA CAAGCAGCTG CAGCTCAGAG TCCTGCCTGC
 47051 TCACCGTCTC AGAGGGTGAA ACTTTCCCC CAGAATGACA CCAGAAAAAT
 47101 CCCCTCAGGG TTTGCAAAAT CATCTCATC CAGACCACAG GCAATGGTTT
 47151 GGTGCTCAA GGAAGATTCT GTGCAGGGAT GTGTTCGGTG TCCACACACG
 47201 CTCGTGGACA TATTGGGAGG GGTGACTGTG TGTGCAGACG CCTTGGCACA

FIGURE 3, page 15 of 188

47251 GGACAGGCAA TGTTGGCAGT GCTCAGTGCA TGGGTAATTT TTACTAGAGC
47301 TCTTACAGGC CTGGCCATAG ACATAGAGGC CTTTCTCAAG TAAGCCAGTT
47351 CATTCTTCTG TCTCCAAGAT GTGTTCATGA GACTCTGGAT GTTGTGGCCT
47401 ATTGACTTTT CCATGAAGAA TTATTATTAT TATTATTATT ATTATTATTA
47451 TTATTATTAT TATTATTATT TTGAGTCCGA GTGTCACTCA GTCACCCAGG
47501 CTGGAGTGCA GTGGTGCAGT CTCGGCTCAC TGCAAGCTCA GCCTCACGGG
47551 TTCACGCCAT TCTCCTGCCT CAGCCTCCCC AGTAGCTGGG ACTACATGTG
47601 CCCACCACCA TGCCCGCTA AAGTTTTGT ATTTTTTAG TAGAGACAGG
47651 GTTTCACTGT GTTAGCCAGG ATGGTCTCTA TCTCCTGACC TCGTGTCTG
47701 CCCGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGTGTGA GCCACCACTC
47751 CGGCCGAAGA ATTATCTAA ACTTAGCCTA TTCTGGTCCC TTTCTCTGT
47801 CAGAGTCCTT CTTAACCTTT ATGCTCTAA TCTCTCTTTC TACAATCAGA
47851 AGAACTAAGC CTTAACATG GTGCCCTTAA GAATTAAAG ACAACCGCCC
47901 GGGCTCGGT GCTCACGCCT GAAATCCAG CACTTTGGGA GCCCGAGGTG
47951 GCCAGATGCA AAGGTTAGGA GTTCAAGACCC AACCTGGCCA GCATGGTGA
48001 AACCCCCGTAC TCTACTAAAA ATACAAAAAAA TTAGCCAAGC ATGTTGGTGC
48051 ATGCCTGTAG TCCCAGCTAC TCAGGAGGCAG GGAGAAATCAC TTCAACCCAG
48101 GAGGCAGAGG TTGAGTGTAG CCGAGATCAC ACCACTGCAC TCCAAACCTG
48151 GGAGATAGAG TGAGACTTAA AGACAAACAT AAACTCTCT CCCAAGATCA
48201 GGGGCTTCT GAGCACTGGT GTCAGAAATC ATCCTTAAGC ATTACAGATA
48251 TAAACCATCC CATCCTCTGG CTGAGCTCAG CTCTCTCCAG GGATTGGAGG
48301 CAGCAGGACC TTGTTGGG TAGCTCAGGG CTCACGATGG ATCTGCCAGT
48351 GATGCTATCT GAAACCTGAGG TATGTAATC CTCCCCAAGA GCCACAGC
48401 CACTCACCTG GTACCTGTAG CCTTTGCCCT GGGACAGCTC TCATGCTGCT
48451 GTGCAGGCCA AAGTTTGGAA AACGCAGGGG TCAGATGTCT GCCTCCCA
48501 GTCCCCCTGTC CCTGACACAG AGTGGGCACT GAAAAAGTGT TAGATGCC
48551 GCATGTCCCA GGGCTGACTT GGCTTTATGT CATCTCTCCG TTTCTCACAA
48601 AGGTCAGATC ACAGATACAG GGCCTTCCAG GTTGTGAC TGTGAACCCC
48651 ATAGCTCCAG GATACTGGT CCTATTGCT GAGCTGCTC TTCCCCACCA
48701 TCCCTGGGAA TGCTCACTTT CCTTAACCTAC CATCCTCAGA GAGCTCCT
48751 GCCCTTCTA ACAACTGTG GGTCCCTCTG CTAGAAGGAG CTTAAACTGT
48801 GTTCATGCAC ATGAGCTAA CCTCTGTGGT TATGACGGGC AAGCTATAGG
48851 TCGGTGTGGG CAGGATAATG AACCCCTAA CACTCGTGCT TGCTAGCGG
48901 TCTCCTTAGA GGTTGCATTG CAATATTG GCATAGGTCA CTATCTGGAA
48951 TTTGTGGGAA AGAGTCACAT TGTCGAAGAG GTCATGACCC CTAAAGGGTA
49001 TGAACCACTG CACATTCTA AGGACCAAAA GACAGGATGG TGTCAGGCCAG
49051 CCTGAAGCAC GCTGATCCTG CCCCTCCAGG ACAAGTGGAG AGAGATGATG
49101 GTGCTCCCTG TATACTGCT GAGGTCCCCA CCCTACCCAG GAGACTCACC
49151 CTCATCTCTC AGATCCAGC AGAAGTTAAG CTTGACATTT GTCATCTTC
49201 TTACTTGACC AGTCCCCAAG CCAGAGGCAT TTCTTGCTT TTCAAGGAA
49251 CTTGAAATTAA TCTTCTTCAT ATAACACTG AAGCCCTTTT CAAACCTCAT
49301 TAAGCTATTT GCCCCAGCAT ATTAATGTGC TATCCACCAAG CCTCTGGGGT
49351 TAATTATCTG TGAGTTAAAAA TCATTTGTTT CTGTCCTTT TATCTCATTG
49401 CTGCTTGGCA ATCTTCTTT ATTAGGAAAC GAAGTACAGG ATGCAACTGA
49451 CCATTATGTT CTAATTCTAT TCTTTCATC AAAATGAGTT CATCTTTAA
49501 AGCTCTTTG TAAAAAACAA CAAACCTGTC TTTTCATTAT TTTAAGATTG
49551 TGTTGTTTT TTAACAAATC TTAAATCTCT CTGCTTCAGC CGGAGCAGAG
49601 CCAGGACTGG AAATAATCTG TAAGGGGAGA CCTCTCCCT AATCAGCAA
49651 GACCTGCCAA CACTCTCTCT CCTGATTGGC CTCACTCACT CTGCATTGG
49701 CCCATTCTC TCCGTGGCT GTGGTGAGGG CTTCCAAGGT GTACAAGTTG
49751 GGCTTGGTGA ATAAGCCACA GTGTCTTGGC AGATCAGGCA ACCAGGGTTG
49801 GAAAATCTG TGCAATTCTAA CACACCCAC TGGTCTCTAC ATGCTCTTAT
49851 TTGGGTTATA TTTCTTGGCC AAGGTTGCCA TTGGGTTCCA AGAAATGCGT
49901 CAGGGCCTGC ATTAAAAAGA AAAAAAAA CAAAACCTT TTCAACAAAT
49951 GTTGAATGTT GCTTGAACCT CTCCAGGAAG TCAGGGAGCG TGTCCTCAG
50001 AAATGAGCAG GTAGGATGGG CACTGGCTCC ATGGAGACAG TGACCCACAG
50051 CCTTCGGGAA TAAGAGTGCAGA GCCAATAGTG GGGAGACCTG GGGCGGGGTC
50101 TGAGCGCAGT CAGTGCAGTT GGATGGTGCAGA CAGAGCTGGT TCTCCCATGT
50151 ACTGCAAGCC AGTGATTGCC CCTACCCCTGT TCTTCGGGGC TCCAGCTTCT
50201 CAGCTCCATT CTCTGCCCT CAATGGCTCT CTCACCTCAT CAGTGCCTCA
50251 AAAACAATAT CTGGGACTCT AGTTTGATAA CTACTACTTG CATTGGAGAA
50301 ATGACTCCTC TGGAAAGGTG AATACGATTG TCAGAGTTG TTGAGGTTT
50351 ATTGGTTGCT TATAGAAGTT TCCTTGGGCT GATTGGAGTT TGGTGTGCAG

FIGURE 3, page 16 of 188

50401 AGATGACCCG GCATAGTCCC TGCCCTTATA GATGAGTCAG TTGAGAAGAT
50451 GCCCAAGCGT CCTGCAGACA GATGTCTACC TGGTGTACCT GCACCATGGC
50501 CAGCCACCTC TCAGTTGGGT CCGCAACATA GAGAGAGCAT TTGTTCACTG
50551 TAATTGATGT TCCAATCTGG GAGAACAACT CTCTGAATGT TCTGGTGGAG
50601 GTGAAGTTTC AGGATCTTT TTCCAAAGCA TGGCTGTCTC AGCAGAGGGT
50651 CCCCTTGAC TTTTAAGGGC ACACTGTACC AGTGGTGACG TTTTTGTTGC
50701 AAATAACAAA CCCCAACCCA ACTAGCTCAA AAAAAAGAG GACTTATGGC
50751 TTATGTAATT GGATAGTCCA GTGAGGGTGG AAGGTGAGGA GTGCTGGCT
50801 TCAGATATAC TTGATATGGA GTGTAAGGAC CTGGCTCTC CCTCCATT
50851 GCCCCCTCTC GGGGGTCCC CTTCATGGTG AGTGCAGCC TCCCCCTCCTC
50901 ACAGCTCCAG GTCCAGTGGA ACACAGATGG CCTCTAGTCC AGTGTATCCC
50951 ACAAAAGTGC TAAAGCTCAC TGGGATTGGA CAGACTCAGG TCATGTGATT
51001 CATGCACTTA ATTAATGCTG TGTGCTGTT GGTTTCCCTGA AGTCACCAGC
51051 CATAACGCTG GTCAGGATAT CATGAAGTGA GAGTGGGAGG AAGGTGGATC
51101 CCCAAATGGC AATTGGTCT GAATAAGGGA CACAGAAGCA GGAAGGTAAA
51151 AGGAAATTCT CTAAGCATAT TAACGTCTAC TTAATGATTT CACATCTGGG
51201 TGTCTCTCAC TCTCCACCCC TAAAAGGATT CTGAGTGCCT GAAAAGCAGG
51251 CTAAGAATCA GCAAACATTC ACCTAGCGTT TCAGGGGGGA GGTGCTCTC
51301 TCTGTCCTCA GAAGGAATCC AAGGCTAAGA GATTAAGCAG TTGACCCAAG
51351 GTCACAGAAG CTTCTAACAG AGTGTGAGTT TGAACCTCAAG TCCCTGATGA
51401 CAAATAAAAGG GCACCTTTT GTTGTTCAA ATCACAGCTG CCTCCAGCGA
51451 TTGGGTTCTT TCACCTTGTG CTTTGTCCCT GTCCCCTAGG GTAGCTGCAG
51501 GAGGTACCTG GGGAGGTGCA TCAAGCATT ACCAGCGAA ACTTGAGAGG
51551 GTTTTACCC CAAACATGAC ATCCTTTCTT TAGCACTTTA GCCAAAGCAC
51601 ATAAGGATGA AAAGCAATAG AACATCAAAT GATGAAATCA CCCAAAGTAG
51651 AGAGAAAAGT GAATGAGCAA GCCCCTCACCC TGGCAGTGGC TTCAGTCCTT
51701 TCCTTGATGA TGTGTCAG AAGCTTTAT TTTCACTTT TCCTAAGAGA
51751 TCACCTTCTT TCTTGGGAAG GGGTTGGTGG AGGCTCGCTG GGCTGGCTGC
51801 TTCTAAATGG GCATGGGGTG GCAGACAGGA ACACAGGATG GGGGATGGAC
51851 CTCACCTATA ACCAGGGCTG CTGTTCAGGA GCCCTGAACCT TTTGCAACCT
51901 CTGCCCTCTG GGTTCAAGTGA ATTCTCTTTC CTCAGCTTCC AGAGTAACCT
51951 AGATTACAGG CATGCACCAC CACGCCAGA TAATTGGT ATTGTTGGT
52001 AGAGACGGGG TTTCACCAAG TTGGCCAGGC TGGTCTCGAA CTCCCTGACCT
52051 CTGGTGTATCC ACCTGCCTCA GCCTCCAAA GTGTTGGGAT TACAGGTATG
52101 AGCCACCGCA CCCCCCAGG AGCCACTTT TAGTAAGTAA TTTCTATGT
52151 GTCCACACAT TCAAGACAAT TTAGAGGCAA AAGTTTAGT CCTTTACTAT
52201 AAATTCTGTA GATTGGAAAT GGAAACATT TCACATTCAA CTTCTTATTT
52251 AATCTTCATA AACAAACCTCT GAGATAGGCA TTGCAATCTT ATTGTTGTAAA
52301 TTTAAAAAAAT GAGGACCTTT TGTACTCTGT AGGAAATTGA TCAAAGAATT
52351 AAAATGGGT TCACTGAGGT CATTCAAGGAA GATACTTCT GTGGGAATCT
52401 GATAATGTTT GTGTAATTCT GATTGAAATA TTCGTTATTCA AAAATGTGGG
52451 TTCATTGTT TACAGTCAGC ATGCCCTGCAG AGTCAGAGGT CCTGGGACCT
52501 CCCCCAACCT CCCATCTCGG GGAGCTGTGT CTTGCTGCTG CTACCAAAGG
52551 GGAGTAGAGA ACCCCAACTT CAGAAGAAAT AGGCCGTAA AAAACCCACG
52601 GGTCTGGCA ATGCGTTGTT GGGGGTAAA ATATATTCA GTCTATTGCG
52651 TTTACTAATT TTAGCAGTTA TTTGCTCTCC CTTTTTGCTG GAAGCAACAT
52701 TCCCACCCAG CTGCTTGGCT GCTTCATTG AATTTTTATC ATTGTTGTGA
52751 GCCCTGCA TTTGGACAC AAAATGGGAG TCCCTGGCT CAGAGGGGAC
52801 CTTGATTGA TAGGGTCAGA TCTAATCTCC TGCTCAGAAA CTTCAGCGGA
52851 AAATAAAATG AGTTGAGGTT TCTGTTTGT GTGTGTGTGT TTATTTTTA
52901 AAAACAGTAG GCCTGTAAAG CTGTGCTGGC ATATTACTTT TTTCCCCCTT
52951 ATACAGAATT TAAAATAATA CCTTACATT AAATAGTGTAA ACCGGTGTGC
53001 CTTTGCTCT CAAAGAGCTT TCCCATTGTT CCTCTCATTT AATATGCTCA
53051 AGAAAGCTG TGAGTTGGGA AGAGTGAAGA TATGGTCATT GGTATTTGAC
53101 AGAGGAGGAG ACTGATACTC AGAGATGGCA AGGGACTTGC CCCGGGTAC
53151 ACAGCTAATT GAGGCAGAGT TGGAGATTAT AGCGTCCAGT TCTGTATTAC
53201 TCCCACCAAG GCTTCCCTG AAAATAAGAG TTTATGGCAG AAGTTTCAA
53251 ATTAAGACCC AATGGGAAAA CACAGAATT TCAGTCCTGT TTTGGTTCTT
53301 TTAAAAATAA ATTATTGTAA AGATGACTTC TCTCATCTGT CAATGTAATG
53351 ATCCCCATACC TGGGGTATTC AAAATATTCA AAATGTGTAT GGAGGAAATG
53401 GTAAAAGTTA ATCATTTCA CAGTACCTGT CTGTGGTGAG GTTAAATTAT
53451 CACTTGACAT ATTCATGTT TTAAAATGAT GACAGTTAA AATAGAGCCA
53501 GAGAGAGCCA GAAAAATCCA TTCATTATCA TGTGTCAGGT GCTACATTGG

53551 AATAACCCCC AAATACAGAT GGTCCCTAGA CAGATGATT TGCAGCATT
53601 TCTGATAGCT ACAGATGTCC CTGCTACTGA AACCCAGACT GAGAATACCA
53651 TTCTGACCCCT GCGGTCAATA TGCAGAGGGT GCTTGGGTGA ATCTAGCAGC
53701 GCGGTTTGAT TCTCGTACCG CATCGCAGAT GCTAAACTCC CCCATGCTCT
53751 CTCCAATCCA AACCTCTCAC TGGTCTTCTG CAGAATTCT AATGAACAAG
53801 ATAATTCTATT GTGAGTGTGC TTTGAATGAA TGAATGAATG CTATTTAAC
53851 TACAAGGTGA CAGATATTTC CATGTGCCCTC TTAGGAAATT GCATGCCCTT
53901 CCAAGAAGAC AAGGTTGAAA AGCAGCTTGT TGTTGGTGA TAAGCTCAGC
53951 ACTGTCTGTC TGTTTAGGAA AAAATAAATA ATTGTTTCTT GCCCATGAGA
54001 ATTCTGGAAG TGGAGCTGTC CAGAGCTGAC CCGTCTGTCC ACATTTCAA
54051 TTTCACTTTG GAGAGTCCTG GGAGAGGGAG CAGATGAAGC CATTTCAGAA
54101 ATGTAATGTC TGTGACAT CTATTAGCTC AATGCTCATC CATTGCTGAC
54151 AGCAGGATCC ATTAGGACGC GAGTGTCTG GATCAGAGAC ATTGAAATA
54201 TAGCGAGAAA CATGCTACCC GCAGCAGAGG CCCATGTAGA TGACTTGAGA
54251 GAGCACTAGA TGTGCCACC ACTGTGGTCC AGGCACCTCC CCCCCATCTC
54301 CCCAGGTCT CTGCTGGAT TCCCCAAAGG TCAGCTGCGT AGCCAGTCTT
54351 CACGACTGCA CTCTGTCAC CAAGCAGCCT GCCTGAATGC TGGGATGGC
54401 GGTGACCTT CCCTCCTTGC AAGGTCGGGC TTGCTCTAG TCTCTACCAT
54451 TCATGGAATC ATCCAATGA TCCAACCTCA GATCAAAGGC CCCAACAGGGT
54501 CACCCCTTAT TTGTATAGAT GAGGTAGGCT TGAACAGGTA CAGTGACGTG
54551 CCTGAGGTCC CAGGGGGCTA GTGAGTAGCA GAGGAGGGAT TTGGGGCTCT
54601 AAGCCAGTGC TCTTAGTTCT CAGGGCTCTC TGGGTTGTTT TTCTTGCTTC
54651 CTTTCTTGC CTCCCACCC TGAGTCCAGG TTCTCCCTTC TCTGTAGGGT
54701 GGCACAGTGT CCAACATATC CCAGAGACTT AGCCGCCATA TCTTAGTGT
54751 GGGGGTCTG GCTAACTGAG TTTTCTAGTT AAGTTCTATG TTTTGACTTC
54801 GTTTAAGTTA TTCTAAGTG TTTTGTTCCT CTGCCTTAGG GGATCGGAGA
54851 TTATATGGGA GGGGGCACAT GATGACAAC GTTGTATTAA AAGCCTCCAC
54901 CATATGCCAT ATGCTATGCT AAGTTCACTT ATTTAACAC TCCCCAATAG
54951 TCCAATGTTAG CCAGATAGTG TGATATTCTG TTTAGAAAT GAGAAGACAC
55001 AGCTTGGAAA GGATTTGTGA TTTGGTTTGC TGGGCGTTTC AGTAAGTTGG
55051 TGACTTATTT ATTGACCTCA CTGTACCTAA ATATTCAATC CTTGTGGTG
55101 GGATGTCCT GTGCTTGCT ACTGTAGCTT TGCTAGGACC CTGTCCTGA
55151 GGAECTCTCAG CTCTAAGGC AGTCTGCAAG GTCACCTCTA AATGGACAGT
55201 CCTGAAAAG CTTAGGAAGA GCAGGCGCAT CCATAGCTGT GCTTGATGGG
55251 AGGGGAACAT GTGGAGGACA GAGGGAAATG GAAAAGAAC GTCGGAGACA
55301 AGACACTGAG AAGATGCTGC CATGCCTCGG AAAAGAGGGG AAGATGCTGG
55351 TCCAGGTAT TAGTCTTGGA CAAGCCTAGG CTTCCCTCCCT CTTGATACAG
55401 ACTGTGGTT CGGGTACCG CGGGACTCAC CCTCTCTCCC GCGCCCCCTG
55451 GAGGTAGAG GGAGAGTTAC GTTTTCCAGG CCCAGAGACC TGATGGCAAG
55501 AGACTAAGTA GCGCTGCGAG TTGGAGCACA GGGAAACCGCA GGACCAGGAG
55551 ACTTTACCCA GAGGTGCGTT GCCCTGAACC CTACAGTTGA GAATTCTGTG
55601 GCTCTTCTAC CATGTGCAAG TGTCCAGAAA AGACTTGCAC ACATATATCT
55651 CTCCTATCTG CTGCTAATTCT TTAGAACACC CACTGTTAGG GCTTCATCCC
55701 CTGTTTCTTT ATGAAATACCC CCAAAGTCAC GTTGGGTCCCT GAAAGAACAG
55751 CTGAACCTTC GTTGAGGCCAC ATCATCTCCT ACCTGGAAAC TCACCAAGCC
55801 TGTCTGCCCT TTCATAAGAA AAGTAAGACA GGTTTCTCCT AAGACCCCTTG
55851 AGCCCGATTT CTGTTCCATA TTTGTTCTAT ATGACAGGTC TCAAACGTGGT
55901 GGCTCGTGGG CCAGATTCA CGCTGCAGCCA TATTTTGATT TATACCATAAC
55951 TTGGCCTGCA GAGGTTTTTT GTAAACATAA AAATATTCA ATATGAATGA
56001 GTTGCCATCG TTGAAAATA AGGGCATTTC ACCAACAGAT TCAAATATCC
56051 AAATATACAG ATGATCTTGG AAAGCAAAT GCTTTGATAA CCCTGGGCC
56101 ACATGACCTC ATGCGAGCAA CAGGCTTGGG TGAGAGCAGC CGTGTCTCTG
56151 AAGGGAATAC ATGCTCTCCT GCTTTTCCAC AGTCCTCACC ACTCCCTAGT
56201 GCATTCCCTCA TAGCGAGACT AAGTGTGTTA GATACAGTTG TGAGAATAA
56251 ATATGACCAA GTAGAAATTC CAGAAGACCC ATGCTCCTTA AATTACTTGT
56301 GTGGCCTCCA TAGACATTG AGTTTCAAT CCCTGTTTG TACTAAGGTA
56351 TAGAACTTGT TAATTATGGA CCAGTAGAGT CAGATGTCAG TAAGGAGATG
56401 GGGGAGAGAG GAAAGTGGAG GGCAGGAGGG AAGGTGGGAA AAATTAGAGT
56451 AAAGGCTGAA GCAACCCCTT ACCTCCTCA CGCTCCTTGA ATGTCTCTAA
56501 TGATGCTGGT GTCTAGAAGT GGGTCCTTGC TTTAGGCAGT TAAATCTTCC
56551 ATCATTCTAT CTTATTTTT GATATTGTG CCTTAATCTA TAAATATTCA
56601 CTCTAGGCAG TACATTTACA AGCAAGGTTC AAGCTTGGTA ATTAATATT
56651 GTGCCTCTCT ATGTAAGTTA TGTCTTAAA ATGAGGCAAT TGCTTTAAGC

56701 ATTTAAGACA TTCCACGTAT ATTGCAGAGT AATTACTTC CAAAGATATT
56751 TCCAAGTGAT ATTTGTTAC ATCTAAATAT ACATTACAG TACTCAGTAG
56801 ACCAGAAATAG CTCTAATTAA TATATTGGT CCACTGGGTT AGAAAAAGAG
56851 ACATTTAAA AGTATGTTT TAATCAGTGT GTTTATCCC AAGATACTGT
56901 TGGCTCCTCC AGAACACAC GATTTATAA AAAATAATAA ATGTGGTGTG
56951 TTCTCTGAGC TGATTTAGAC TTTAATGAGA GATGACATCT CAGCGGAGCA
57001 TGAGCATGGC TAACTTTAA TCCGGGCTCC GAAGTGTCT AGAGCTTGGA
57051 GGAACATTATT AACTCCCTG GTGTCATTT CTTAATGTAC AAAATTCA
57101 TGATAAACAG TTACTGCCCT TGTGCAGTGA GAATTAATGC TTTCTGAGTC
57151 GCAGTATTGT TTTGATAAAA TAGTCTTAAT TGTGGCTTT GTACATTTTC
57201 TGCTTTATTA TTTTATTAT TTCTCTTGCCTCTGTAATTG GTCGTTATTG
57251 GGTTCCCATT ATTTCTTTAT TAGTCATTAA TAAAGCTA TCTTGTGATT
57301 TATCCTCCCT CCCACACTTG CTGTTCCCC AAGTATCGTA AACAGAGGCA
57351 AGACCCAGGC AAACAAAGCT GGTGGTATTG TTGGTGCCT TGAGTGGCTC
57401 GCCCCGTTGTC TTTAGGATGG TTCATTCCCC ATTGCTTGAC TGCTATGAAA
57451 GAACTTATAT GAATCCCAGG AGGTTTATTA GAAACATGTT CTAAGTAATA
57501 GTAAGAAAGT TGGATTAACA GGGTCTGCAT GGAAACTCTA ACCTCCCTCC
57551 CTAAAGGAGG AGAGGAGCAA GATGAGTGT TCCAGCTTGG GGCAGGATC
57601 GTAAGTGTAC AATGACCACA TAATATGGCA CACTATATAA AAGGACAAGA
57651 AAATCATCGC TCATACAGTG AAAAGAACGCC AAACCTCATT CTACCTAAAA
57701 GTTGGCTTTC TATAACATTT CCAGGCCACCA TTACATTGGG ACTTTATCCT
57751 ACTCTTATTA CTCATATGAT CTCATTGAGT TGAGAGTTGT CTCCTCTGT
57801 GTTCTCTAAC TATTCACTGAT AGTTTTCAAA ATTATACAG CCAGACATT
57851 TGAGTATGAT CCAATGACT GGTATTTAA CTTTGAAACAA GTTATTTAAA
57901 CTTCTGTGCT TTGGTTTCTCACATCTAAATAGTGGTGA TAGTTCTATC
57951 TACCTCCTAT GGCAGTTGTA TGGATTAAAT GCATATTTAA AAGCTTAGCA
58001 TAGCACTGGC CCACCTCTG AGTAGGCTCT ATATTAGCCA TCATTGTTAG
58051 CTATTATTC CCCCACAGTTG GGGCTGGGGT TGCCCTGGGT TGACTTCT
58101 AATTCTAAGT GGGCCTGTAG TATGGGGGAC TAGGATGTCT TTGGTGAATA
58151 CTTACTGAAA TGCAATTGGGT TAGAAAGCCT TGGATTAAAC TGGACCAATT
58201 TATTTCTTT CCTCAAAACT GAGTAATCAC ATTATCCAC CATTTCAGAA
58251 AGAGTAGATA CTAATAACAT GAAAATTTA GAACTATTTA TGCAAGCTTAT
58301 TGTTTCTGGC TATATGGGAG GCTAGATAAC TTAGCTGACT CTCCCACTTA
58351 AAACAATTAA AAATAATGGAA TAAAACATT AAGCAATCCT TTAAATACCT
58401 CAGTGAGAAA GCAGGAACTA AAGATTCTATA AGAGGCCAAA AACTCAGAGA
58451 AAGTTGGGTT CAAAGCAGA CTTTGCTTT GAGAGTATTT GCCAATGCA
58501 GGTGACCTTG AACTCTGATT GTTACGACCT CAAGAGATAT GGGGACAGGA
58551 GTCAAGCCTA GGGCAGATCA GTCTGTTAGA AAACCTCCTC TACATAAAAG
58601 CTGAGACCCC AACAGACCCCC AGTAGGCTAC CTCTCTAGTG TAAGGATGAA
58651 ATAAAAATAA ACATGCCCTG TCTTCTCTCA AGGATGTGTG AAGAAAATTG
58701 CCTGCCTTAA ACCTTGATGC TGAGTGGGAG CCAAAATGTT TCCTCTGAGA
58751 ACAGGAACCA CAAGCTAACG TTTCAGTACA ATTCAATATAA CAGACTAGTC
58801 TGAGAAAGCC TCAGCCAAGA ATTTGCTTG AAACAGTCCT GTTGATAGT
58851 GTTCTCTAGGT ACATGGTAGA GCAAAACACAA ATCCTATGTA AAAGAACTCT
58901 TCTTCAGTAT TGGCCTCAAA TAATTTTGAC AGTTTCCAT CCAAGGAATA
58951 TGAGCTCCA GTTAAATTT GTAAAAATGA AAGGATGCAA AACACCAAAA
59001 GAAGAGCCAG CAGAAAGGAA CTATGAAGAC CAGATAATAG ATTAAACATT
59051 TAAAAAAACTG TGCATGCTGT GTTATAAGCA ATAAAAAAGGG AGCTGAAAAT
59101 ATAAACAAAG AATAAACCTA TAGAAACTAT CTTGATTATT TGAAAAATAA
59151 CCAAAATAGAA TTTCAGAGAA TTAAAAAAGGG TAATTGAAAT TTAAAAAATC
59201 AAAGGATAGA CTTCAGAGCA AACAGGGCAT AACTGAAGAG AACTGGAAGA
59251 TACATCTGAA AATGTAACCA GAATGCAAGG AGGAGACAAA GCTATCAAGG
59301 TTAGGAGGCA AGGAGACTAG GATAAGGAGG ACTCAGTCAT TTGTAATTGG
59351 GTTAAAGAG AGAAAACAGG AAGAGTAATA TTGGAAAGGA TAATGGTTGA
59401 AAAAGTTG CAAAACAAAA GGAAGACAGC TATCCTCAGA TACAGGAAGC
59451 CCAGTAAATC CCAAATAGGA TAAACAAAAA GAAACGTAAG GCTATCTACA
59501 ACAAAACACT GCAGAAACT AAGGACAAAA TGATAACCCT CAAAGTAGCT
59551 AGAGAGAAAA AACAGATTAC TTATGAGAGA CTTATACTTT ATTCCCAGT
59601 AGAAATCAGA AAGCATTGGA ATATCTTTAA TATGCTAAGA GAAAACATTG
59651 GTCAATCTAG AATTAGTAC CTATTAACCA TGTTCCACAA CACTCTTACT
59701 CTTATTTCT GTTTTTCCC TTCTTTTTC CCCCCTCAAG CTTCAATCTA
59751 CTTTGAGTT CATTAACCTT TTCTTCAGAG TTTTTTATG TTAATTCTAG
59801 CCAGTGAATT CTTAAAATTC AATATAATAC TTTACAGTTC TAGATCCTTT

59851 TGATTCTGTC TTATGGGTT CAGTTCTCCG TTGAGCTACT CTTTCTTTTC
59901 TTTGCCACAC AGATGATAGT AATTTGAAG TCCTCTGTCT GCTAATGCCA
59951 GTAGTGTAG TATCTCTAGG TCTACCTCAA CTGATGATTT TATCTCATGA
60001 TTACAGGTTA CCATTTTTG CTGTTCATGT TTAGACTTTG TTAGGAGATT
60051 TTTTTGGT TTCTCCCTCA GTTGAATGT ATAGGCCTTA TTCCCTAGGAT
60101 ATGATTCTTA CCCATAGGAC AAAGCCTTT TGTGTAGTCT GAATATCAC
60151 TAGTATGCTG CAATTCACTT CTGCCACTAA CCCCCCTGGAG TTAGCAGACA
60201 CCCTAAGTTA AGGACTCAGT CCTCTATAAG ACTGCTCTCA CTTCAAACGC
60251 TAACCATAGG TTCAGGGTT CCCCAGTCA CCTGCAITTC TGACCTACTG
60301 ACTATAAATT CTTGACTATA AACACTGACC ATAATCCTT TCCATGACAC
60351 CCTTAGGTT GATAATTCA AGAGTGACTC ACAGAACTCA GAAAAGTTCT
60401 ATATTTTGA CTACCATTTT ATTGTAAATG ACACAGATGA AGCCAAATGA
60451 AGAAATACAT AGAGCAAGGT CTGGGAGGGT CCTAAATGCA GAGCTTCCAT
60501 GCCCACTTCC CATGAAATCA GGCTACATTG TTCTCTGGC ACATCAGTGT
60551 GTTCACCAAC CAGGAAACTC TTCTGAGCTT AGGTGTCCAG GGCTTTTATT
60601 GGGATTTAT TTTGTAGGTA TTATCACTT AATGATTGGC CGGGTAACCTT
60651 TAATGATGG CCATGTAATC CAGCTTCCCC TCTTGTCTTA GTTAATTTTC
60701 TGGTGCTATA AGGAAATACC TGAGACTGGT TAATTATTT ATTNTTTTAA
60751 AAAAGAGGT TTATTTGGG TCATGATTCC AGAGGCTCAG GTTGCCAAAT
60801 CTGATCATCT TCTGGTGAGG GTCTCATGCT TCATCATAAC ATGGGGGTGA
60851 GCTGAGTGT TGCCAAAAGG GCAAATGCAA GGACAGCCTC ACTTTATAGC
60901 AACTCGCTT TGTGTAATT AATCCAGTCC CATGAAGGGG AGGACTCCCA
60951 CATTCAATAAG AATTACCCA GTCTGTAAAG AGCAGTGTAA ATCCCTCTTA
61001 ACAACCAAT CACCTTAA AGCCCCCATC TCCCAACACC ACCACACTGG
61051 GGACCAAATT TCTAACACAT GAATTCTGGG GGACACACTG AAACCATAGC
61101 ATTTCACACC TGCCCCCAG AATTTCATGT TCTTCTCACA ATGCAAATA
61151 CAATTATTC ATTCTAATAG TCCCAAAGGT CTAACTTGT TCCAGCACAA
61201 ACTCAAAAT CCAAAGTTT ACCTATGAGC AGCTTGGA ATCAAAATGA
61251 GTTATCTACT TCCAAGATAC AATGAATGGA CAGGTATAAG ATAGACATT
61301 CCCTTCTAAG AGAGAGAGAG AGAGACAGAC AGACAGGCAA GAAGAAAGGA
61351 GTATCAGGCC CCAAGTAAGT CCAAAGCCCT ACAGGGAACA ACATTAAGTT
61401 TTGAGGCTGC AGAATAATCT TCTTGTACT CATGTCAC ACTTCAGCTC
61451 TCCCAGAATG GTGTTGCATG CTGTTAGCTC ATGGTTCTGA AGTCTTTATG
61501 GTGATTCCAT TCCCATGGCT CTACTAGGCA TTACTTAATG GGGGCTCTCT
61551 GCAGTGGCTC AATCCTCTG ACAAGTCTCT TCCTGGGCC CCAGGGTGT
61601 CACAATATCC TTTGAAATCT GGGGGGAGGA AGCCATGCC CCATATCTCT
61651 TGTATTCTTC ATGCCTGCAA AATTGATGCC ACTTGATGT CACAAAGGTC
61701 AACTTGTACT TTCTAGAGCA GTGGCACTAG CTATACTGA AGCTGTGGCT
61751 GGGTGGCAG AGGAGTGCTA CGCTGGAATG TGGGAAACAG AGACCTCAGG
61801 AGGCCCTGGG AAGCAAGCCT GTGGAGGGT CCCTGGCTC ATTTCTGAA
61851 ACCATTCTGC TCTCCCTATGC CTGTGGGTGT ATGATGCAAG GAGCAGCCTT
61901 GAAGTTCTCT GAAATACCTT CAAGATCTGT CTTCTATTGT CTTGCTTATC
61951 CCTTCTGTCT ATACTAATCT CCTTAACAAA AGATTGCTGG ACCACATCTT
62001 TGGTTTCTC TCCTGAACAC ACTTTTCACT TCTTTTTTTT TTTTTTTTTT
62051 TTTTTTGA GACAAAGTCT CGCTCTGTCA GCCAGGCTGG AGTGCAGTGG
62101 CATGATCTGA GCTCACTGCA ACCTCCGTCT CCTGGGCTCA AGCAATTCTC
62151 CTACCTCAGC CTCTCAAGTA GCTGGGATTA CAGGCACGTG CCACCACGGC
62201 CTGGCTAATT TTTGATTT TAGTAGAGAC GGGGTTTCAC CGTGTGGCCA
62251 GGCTGGCTC GAACTCCTGA CCTGAGGTAA TCCACCCACC TTGGCCTCCC
62301 AAAATGTGG GATTACAGGC ATGAACCACT GCATCCAGCC ACTTTTCAC
62351 TCTTTATGTG GCCAGCCTGA GAATTTCCA GGTCTTCCA CTTTGCTACC
62401 CTTTGATTA TGAGTTCTCAT CTGTAAGTCA CTTTTCTCTC TCTCACTACT
62451 TAATGTAAGT GGTAAAGT AGCCATATAA TAGCCTGAAT ACTTTGCTGA
62501 CACTTAGATA TTTCTCTAC CATATATTCT AATTCAATTGC TCTTAAGTTC
62551 TACAGTCCAT AGAGCCCTAG GGCACTGAACA CAATGTAGCC AAGTTCTTTA
62601 CAACTTATA GTCTTACTC CAGTTCCAA TACCTTGTTC TTCAGTTCCA
62651 TTTGAGACCT GTGAGAGTG GCCTTACTG TCCACATATC TGTGAACATT
62701 CTGGTCACTGA CCATTTAGAT AATCTCTGAG AAGTTCTAGA CTATCCCTAG
62751 TTTCTCTTC TGACACCTTC CCAGAATTAC CCTAAATCCT CCATTCTATGG
62801 CAATATAGGC TTTTCTAGC ATTCACTTT TTGGAACAAT TTTGGAACAA
62851 TTCACAAAAT TGTCCATTG TCTAGTTCCA AAAGCTGCTT CAACATTTTC
62901 AGGTATTGT ATAGCAGTAG CCCCCACTTT TGTGTCAATT TTCTCTTAGT
62951 CCATTTCTG TTACTATAAC TAAATACCTG ATAGTGGTAAAG

63001 AAAAGAGGTT TGTTTGGCT CACAATTCTG GAGGTTGAGA AGTCCAAGAT
63051 CAGGCAGCCA CATCTGGGTG ACTTCTGGTG AGGGCTTCAT GCTGCATCAT
63101 GACATAATAT AGTAGGGAAG TGGGTGGGTG TGAAAAGGGG AAAACTCAGG
63151 GAGAACGCTT GCTTATAAT AACACACTCT TGTAACATAAT TCAGTCCTGT
63201 GAGAGCAAGG ACTCACTCAC TTCCCTCGAGA ATTAATCCAG TCCTGCGAGA
63251 GTGGCATGAA TCCCTCTTAG TGACCTAATC GCCTCTAAA GACTCTACCC
63301 CCAACACTGC CACACCAGGG ACCAGATCTC ACGCTGGAAT CTTGGGGAGC
63351 ACTCTAAAC CATATATGGG AGCTCTTTTG GTCCAGAAGT CAGGCTAGCT
63401 CTAAGACCTA ACCCTCTACT CACATGGTTG ATATTTCTGG TGACCAGCCC
63451 CTGTCCCTGAG CCATCTCATC TCTTAATGTA AACTCAGGTG TGATATAAGG
63501 GTGTGATATA AGGTGTGATA ATAATAAAAG ATACTCCTAT TACTCCAAGG
63551 ATTTTCTCCC TTTCAGAAC CAGGGACAAA TACAGTCAT ATTCTTTATT
63601 ATACCACTGG GTCTCCACTG CCCAAAAGCT CAGAGTATTT ACCAAGCTCT
63651 CTATACTTTG ACTGGGCCAG AATTCACCT ACTCACTGCT ATACAAACCTG
63701 TAAAATCTCT GTTGANCTCT TAGCTCCCCA AATATTTCCA GGCCCCCTGAA
63751 ATCTTGCTGC TGTTCTACA GCTTAGGATT TAGTCCGGGA CCAAAGAGAA
63801 ACCCTATTCA GGCTTTGGG GCTCCTTTTC TGTAAGTTGC TCTTATCCTG
63851 AGCTCAATT CAGTCTCAGA AATCTCAGAC TTTGACATCT TTTTCTTCTG
63901 CCTAGTAAGA CTGCTGCTCT TCACTTGAGC TCCATTCCCC TGTGACAAGG
63951 TTTGGCCGT GAACCCATTA AAAACTACCC TCAGGAAGAA AACGGGGGTG
64001 AGTGTGGTGC TCATCTCGT TGTTTCTTT CTTTCAAGAA TAGCAGCACA
64051 TGATGCTGC CTCCAGGGC TAGAAAAGAAT TGTTTACTG TTCTAGTCCA
64101 GCTGTACAGT GATTTTAAG TCAAAACAACA GCTATTTAT TGAAGCCAGA
64151 ACCATAAGTT GCCAATGTTT CCTCAGTATA GAACTTTATA CCATCAAATA
64201 TCTTGATAA AAATTTAAA ATGGAGACAT TTCTGAAAAA AAAATAAAAG
64251 ATTTTTAACCA CACCTTCATT TGTTGCAATT TTAATGGATG TTTTCCAACA
64301 GGAAGAATGG AAAGTCTAAG ATATAAGAAG CAATAATGAG TAAAGAAAGT
64351 GGCAATATTT GGGTTAATAT TTGGAATTAA ATTTAATTTT AATTAATTAA
64401 TTAAAAGTGG GAATATTGTG TTAAATCTAA GTATTAATTG CTTGAAATAA
64451 TAATGTCTCA TAACTTTAAA AGTTTGGCAG AAAATATGTG AAAATATAGC
64501 AGATCAGTCA AAAAAGGACA ACTTCAAATT TTTGTACTGA AACCTTGTA
64551 TAGTTGAGAA AAAGAAAAAA GATACTATA AACTTAATTT TGATAAGTAT
64601 AGAGGGTAA AATGTCTAAG GAAACCCTA ACAAAAGCATA ACTTTCAAGT
64651 TTAGTAGTAG ACAATAATG AAGTGAGAAA AATATTCAAA AAATCTAGGA
64701 AGAATTCAAG GGAGAAAATG AAAATAGAA AAGGCAGAAA AAATAGAAAA
64751 TACAAAATAT TAGCTTTAAA TTCAAGTATA TTAGTAATTA CAATAATGT
64801 AAACAAACCA AATGTTCCAA TTGAAAGATA ATAGTTATCA GAATAGAAAA
64851 AAAAGGCCA GCTATTGAC AAACAAACAA ACATATCTAA AATACAAGGA
64901 TAAAGGTGA AAATAAAAGA TGAAAACAA TATTCCAGAA AAATAGCAGA
64951 AAGAGCCTGG TATAGTATA ATAAAGTGAACACAAATATA ATAGAGGCAT
65001 AAAGCATAAC TAGAGAGTAA GAGGACCACT AAGTAATAAT AGATTAATT
65051 CACCAGGAAG ATAATAACTA TTCCAAGTAT GTATTTACCG AGTAAGATCA
65101 GATTAACATG TAAACTAAA ATTGACAGAC TTATAAGGAG AAATAGATAA
65151 GCTCATGATC ACAATGGGAG CTATTACATA ATCTTAAATA ATTCATTAG
65201 AAGAGAAAGA AGAGGCTAGG CATGGTGGCT CATGCCGTGTA ATCCCAACTC
65251 TTTGGGAGGC TGAGGTGGG TGATTGCTTG AGGCCAGGAG TTGGAGACAA
65301 GCCTGAGCAA CACAGTGGG CCCTGTCTCT ACAAAAAGAT AAAAATATTA
65351 ACCAGGCATG ATAGCACACA CCTGAAGTCC CAGCTACTCA GGAGGCTGAG
65401 GTGGGAGGAT CACTTGAGCC AAGGAGTTTG AAGCTGCAGT GAGCTCTGAT
65451 GGCACCATG CACTCCAGCC TGGTGGCAGA GCAAGGAAAA GAAAAAATAA
65501 GACAGGACCA AAGTTGATGA GTTAAACATC TCCACCTCAC AATGTTAGGA
65551 AAAGAGTAGC AGAGTAAACC CAAATAAAAGT TGAAGGAAGG AAGTAATAAA
65601 GAACAATAAT AAAAAGGAAT GGATAAAATT GAAAAAAAAG AAGTACAACA
65651 GAAAGGTTCA ACAAAAGCCAA AGGCTGATT TGAAAGAAC CAATAATCT
65701 AACAAAACCA TGTCAAGAGT AATAAAGGAA AGAGGAGAGA GGGAGGAGGA
65751 GGGATAAAAT ACACATATCA GAAATGAAAA GAAGATGTAA TAATTTAAAGC
65801 TGCAGAAATC AAAACAATAA TAGAATCTTA TTTCACCAAT ATATTTGAAA
65851 GCTCTGCTGG TCAAATTCC TGAAAAAAA ATTTGTCCAA ACTCACTTCA
65901 GTAGAAATAA AAAACCTAAT CAGTCTTAGC ATCATTCAAG AAATATAATC
65951 AGATTTCTAA CTGGAAATCT TCCCACAAAG AATATGTAG ATCCAGATAT
66001 TTTACCACTG GGTACTAACAA AATTTCCAA CAACACAAAT TTTCATCTCA
66051 TATGAACCTAC TCCAGAACCT AGAAAAAGTG GGTATATTGA TGAGAATAAC
66101 ATAAAATTGA CACCAAAACC TGTTAAGAAT GTTTTTTAA ATGCCAGTTT

66151 GTACATAAAT ACAAAAGTCC TAAGCAAAAA TTGCAAACAT ATATTTAGCA
66201 GTCTATTAAAT AAAAGATAAA CCATAACAAT TTGGATTAT CTCAAACAT
66251 ATTTGTTGC CACTAGAAGT CTCTTGATGT ATTCACCCAC AGAACAAATT
66301 TAAGTGGATA AGTCATATAA TCATCTCAAT AGATATAAGA AAAGTATTT
66351 AAAAATCTAA TATCCATTCA TTTATTAGTG TAAGAAAAAA TTCTTACACT
66401 AGGAGAACCA AATAGAAGGG AACTTCTTA ACTTCAAACA CCATTTTTT
66451 TAAACCAGTA GCAAATAATA AATGTATTAA GTATATAATG CGAGCAAGGT
66501 TTTTCACTGT TAGGAAAGGG TTTACAGAT ATGGAAAGTG GGAAGTCTAG
66551 AATGGTACAT TTGTTTCAG ATGGGAGTTG GAAGTATCAG TTAAGTATTG
66601 CTTGAAGTTA AGAGTGTGTG TGTGTGTGTG TGTGTGTCTG TAACATTCTC
66651 TAGCTCTGT TGCTGAGAAG GCACAGAAGC AGTGATACTC CAGTAGCAAT
66701 GTACACCCCT AGCAGCCAGG TTTCCACTG AAGGGAACTA AGCTTCCTTG
66751 AGAAGTGGGG AAATGGAGCA GAAAAGTAT ACAATGAATC TGGAAGGTTA
66801 TTTGGTCTCA GAAAATAAA GCAGCGCTCA AAACATCATG GGGACTTGTC
66851 AAAACGATAC AATAGTCAAC TAAAGGACT CATGCTGGCC ACATCTGGAC
66901 AATTGAGCT TAAAGGAA AAAACATGT TAATGGATTG TGCGCATATT
66951 GTATGTTCA AAGCTAGCCA CAACAGTATC TTCCATTTCAT ATTCTTC
67001 TTACAATGTG TCTTGACCC TCCTCTTGTG GAGAGCAGG GTCTATGTCC
67051 CCTCGTCTTG AACCTGGGGA CTTTGTGGA AGTGTGCTG TAGGACTTCC
67101 AGGCCAAATC GTAGATGACA GGGTAGCTTC CACCATGCTG GCTGGAACAC
67151 TCATGCTGGA GCCTAAGGCCA CCATGTCAAC TGTCTAACTG TCCTGAGGTC
67201 CCTGTGCAAATCTAGTG GAGAAGAAC ACATGGAAAG AGCCTGAGAC
67251 AGCCTGAAA GAGAAGAATC CCACATCAGC CCCAACAGC TTCAGCTACC
67301 ATCTGACAAC AACTGTGTG GAGGCTTCTG AGCTGAATCC ACCTGGCTGA
67351 ACCCTCCCCA GATATCTGAC CTACAGAAAT ATCGAGAAAT AATGCAACGC
67401 TTGTTGTTGT TTTAAGTCAC TACGTTTGTG GGCAATTCTT TGCAAGCAA
67451 TAGGTAATCA TAATAGATTG GGGACAAAAA TATGAGATGA CACCATGACA
67501 AAACCTCAAA ACACCTGACT TTGGTTITGG TGGCAGGGAGG CATTGAGACT
67551 GCTGGTGAAG GCTTGAGGG GCTGTGAGAG CGGGCTGGCA GAGTCCTGAG
67601 GAGGCTCTCA GTGGGCACCTT AAAGTCAGG GAGGAAAATG TTCCAAGAAG
67651 TTGGATGGAA GAACCTGGGA TGTGGGGTAG TGGGTGGTTT AATAATATTG
67701 TCACCTCTGG TAATGCAGTA AGATAGGAAA TATGCTAAAT AAACCTGATG
67751 ATTCCACTAA AGAGGCTATC AGACACAAT TAGAAAGTAC CACCAGATTA
67801 GTTTTTTTGT TTGTTTTTTT CTTCTTTTTT TTTTTTTTTT TTTTGCCTAT
67851 GTTAAACAT GAGAGGGAGA GGTGAGCTGG AGGACAAACT GTTAAATATA
67901 AAGGAGCCAA GACTCACCAAG GCTTGAAAGT CAAACTGTT CCATTCCAG
67951 CCTCTCAAAG GTGGTAAAAA GTTGTCAAAT TAAGAAAAGA TTTCAGGTCA
68001 AAAAGAAAAT CCATGAGGGG TACCTATAAG GTTCTTGTT AAAAACCTCA
68051 GAAATATTCA AGGTATCATA GACTCTTCCA TCCAGAAAA AAAGGAGGAC
68101 TTTTACAGAT CTTAAGGTGT GCCTTGCTGC TGAACAAACAG GGCTTCTAGC
68151 ATCTTAAGAG CATTGTCACA TAGGGAGCCC AGGAAATGGT AGGGTTTATC
68201 TTGAAGAGAT TTGTGAGTTT GGCTTTTCTT GGAAAAAGTA TGTATTAGGG
68251 TTCTCTGCAG AAACAGAAC AACAGAGAGA GAGAGAGAAT GAATGAGTGC
68301 GTGTGTGTGT GTGTGTGTAT GTGTGTGTTT AAAATGTGT TTATTTTAAG
68351 GAATTATCTC TTGCAATTGT GGAGGCTTGG CAAATCCAGA ATCTGATGGG
68401 GTAAGCTGGC AGGCTGGAGA CCCAGGGAAAG GTTGCAGTT TGAATCTAAA
68451 GCCCATGTC GCTAGCAGAA TTCTCTTCTG CTTGGGGAG GTCCATTGTT
68501 GTTCTATTAA GCCCTTCAAC TGATGGATG AGACTCACCC ACACATATGGA
68551 AGATAATCTG CTTTACTCAA AGTGTGCTA TTAAAATGTT TACCTCATCA
68601 AAGAAAAAAA AAAAACCTTC ACAGAAACAT CCAGTAAAAT GTTGTATGAA
68651 ATATTTGGGC TCTATGACCC AGCCAAGATG ACACACTAAT CACCACAGAG
68701 TACATTGTAAC ACTGATACAC TAAAAGAATG CAAGTTGTT TTTTCAAAAAA
68751 TTATACAAGC TTAAACTGTG AGTGTAGAG ACAGTGCAAA ATGAAGAGGT
68801 CCCCTGAATGT CCTAACTTCT ACAAGAAGGA AGCAGGCTGA GAAAACACT
68851 TAACATGGGT TACTTTGTAT GGAAAAGGAAG AAAGACTCAA AAGGGTGGAG
68901 CCAAGAGCCC TGGAGAATTAA TTCTGGAGT CGACCGGAGC CCTAATCAAG
68951 GGACTAGAAA CAAACTACTGG CTAATTGCA GAACTGCTAT GCATCAGCAC
69001 CTGATTGTGC CTCACATTTC CTCCCTTTT AAATGAAAT ATCTGTAGAA
69051 GTTGTCTGTG GCCCCCCAC TGTTATGCAT GGGCCTGTGG AGTGAGTGT
69101 TACAGGTCTT CAGATTCAAGA GGAATGGTGT GCGAGGAGCT GAATCCTAGG
69151 AACCTCACCT GAGAAGTCTT GTCTGAACCT GGACCTGATT TAGATAAACAG
69201 ATAACCTGAT TTGATCCTG GATTTGTGC TGCTGCACTA ATAGATTG
69251 GGATATTAGA GAGAGGAGTA TTGCAATATGG GAGGGATGTG AATTGTGGCC

69301 AGAGGGTGGG TCATAGCAGA TTGATTTCC AAAGATGGCA GCAGCAATAT
69351 CTCTCATCAC GCATATCCTT ATAACATGAA TTTGACCTTT CTCATGTGA
69401 GAGATGGGAT CTATTTCCCC TCTTGAATCT GGGCAGGTTG TAACTGTGGC
69451 AGATGTGATT CTATATGACT TCTAAAGCTT TGTCATACAA ATGACAAATC
69501 ATCACCTGTC TGGCTAGATT GCTCACGGTG GATCCCCAAA CCACCATATA
69551 AACAGTGCCT TGAGGTTACC ATCTTGTGAA GGAGCCAAG TGAGCCAACA
69601 TGTAGAGACC ACGTGGAGAT GCTCTGAGGC CACACGAAGA GAAAGAGAGA
69651 CGCTCAACAA GCCCCCAGCT GGCTAGCCCC CCGCTCTCCC AGCTCTGGCT
69701 GTTGTCTGAC TCTAACACCA TGAGGGACCC AGAGCCAGAA TCACTTAGCT
69751 GAGTCCATCC CAAATTCCCA ACCCACAGAA ATCATGAAAG ATAATAAAAT
69801 AAGTGTGTC TCAAACCTCC AGGCTTTGA ATGGTTACAC AACAAAACAT
69851 AACTGGAAAA TAATTATAAC ACACGTAAATA AAATAGGAGT GCATGAGTCC
69901 CTACATACAT AAATGAATAA ATAAGTAGAT GGACATAAAG GAAAGCTCTT
69951 CCTGGTAGAA TGCCAGATAA GAAATATAGA AGGAAAGATG GAGTTAAAAA
70001 AAAAAAGTCT CAGCAGATAC GGAAAACCAA CAGTCAAAGT TTGATGAGGA
70051 ACAGAATATT TACATATTCT GCAAGTGTGTT CTCCACACAT TACTTTTAA
70101 TTACAAAAGG TGGATATAAC CTTAACCAAG CAATTAAAGC TAGCATCACC
70151 AATATTGGG TGAATCAACA TCATATGCCT CTTGATGTGA TATACTAAGA
70201 AGGACAAAGT GTCAATTCTT TGTTATTCTT GTGAAAAAATT TATAACTTGA
70251 ATCTTAGGAG GAAACATCAA ACAAAATCCAT GTTGAGGGAC ATTCTACAA
70301 ATAACATTGCC TGTACCCCTTC AAAAATATTA AGGTCAAGAG ACAGAAAGGC
70351 TGAGGAACGT TTCCAGATAA AATGAGACTA AAGAGACATA ACAACTAAAT
70401 GCAATCTGTG ATCTGGGTT CGAACCTGGA CTAGGAAAAA AAAATAGATA
70451 TAAAGACATT ATTGGGATAA TTGACAAAAA TTGAATATGG ACTGTGGATT
70501 AGGTAAAAGC ATCATAACAA TGCTGATTTC TACAGTTATA CTGTAGGAGG
70551 CTGTGTTGAC CTCAGGAAAT ATACGCTTTA GGATTAAAGG CACATGGGGC
70601 TTTAGCTTGT TCTCAATGG TTCCCCCCTAA AATACATGTA TGACTGTGT
70651 TTATATATGT ATAAATATAT ACATGTATGC CTATATATTT ATATATATAT
70701 GTGTGTACAT ATAGATACAC ACACACTATA TATGTGTGTG TCTCTGTGTG
70751 TGTGTGTGTG TGTGTATATA TATATATATG TGAGAGAGAA ATGATAAGCA
70801 AATGGGGCAA AATGCTAAAT CTGAGATAAA GTATAGGAGA TCCTTATACT
70851 ATTCTTGCTA TTTTCTGTG AGTTGAAAT GATATCAAA TAAACATGAG
70901 CAGGATGAGA GCACCTGCTA TCTCACTTCT ATTTAATATT GCACTGGAGG
70951 TCCTAGCTAG TGCACTAAGG CAAGAGAAAG AAATAAACAA TATGAAAATT
71001 TGAAAGAGAG AAACAAAATC GTGATTATTC ACAAAATGATA TGTTGTGT
71051 GAAAAGCCAA ATGCTCTGTG AATACATTAC TAGGATAACT AATATCTTT
71101 AATAAGGTTG TAAATACAA AATCAACATG CAAATGTAA TTGCTTATCT
71151 GTATAACAGT AAACAAAGAGA AAATGTAATT TAAAATTGAT ACCACTACTG
71201 GCATCAAAAA TATAAAGCAA GAATGAATAT AACTAAAATG TGTAAGGTCC
71251 TCATGGACAA AAAATTATGA AACTTTGTG AAGGGCTAA TTAATTAATA
71301 AGAAGGTCAAG TATTGAAAG GAGTTTATTTC TCCCCAAAAA TGAACAGTGT
71351 ATTAACCTGT TATAGAAAGT ATATGAATGA GTGTGTGTAA TTGACAAGC
71401 AGGTTCTATA ATTTATGTGG AAACCAAAGG ACCAGAAATA ATGATGGCCA
71451 CCCTAAAGAA ATAGCACAAG ACACTGCTGG TGAGAGCAGA AGCTTGTGCA
71501 ACTCTTTGG GAAACAGTTT GGCTTTATTTC AATACAGCTG AAAATGCCGT
71551 ACTCTAGGAA CCAGACACCC CACTCCCCAGG AGCAACCTCT CATAGAATCT
71601 TTTCCATATT TGCACTGGGA GACATGAACA AGAAAGTTCT AGCACCTCTG
71651 TTCATAATTTC AAAATTATAA ACAATTAA GATCTAGCAA CAGAGGAATG
71701 TATAAATTCT AAATTGTGAT ATAGTCTACA GTGATAAAGA ATATAGCAAT
71751 TATCCTATAA TAATATATAG AATATAAAGA GATAGATCTG GAATACTATA
71801 CCCAGAGTGA AAATGAATGA ATTACAGTTA CATGTAATAA AATTGATGAG
71851 TCTCAGGCAC ATAATATTG GCAAAAGAA GCAATGACAA AAACAAGTAA
71901 AATTATTATA CATAAATTAT ACATGGATAA TCACTGTATT GTTATTTTAT
71951 ATGCCACATA TACTTTATAA CTACTTTGCT TCTATTCTA AGTTAATTTC
72001 AAATAATTTC AAAGAAATTTC TAAATATTTC TTATGGCATT GATTATAATA
72051 ATAAAAGTACC TTTAAATGTC CCCAAAAAGT AATTGACTGA AATAATGACA
72101 ATACAAATCAT GCCATAGCAT ACTAAACAAA TATTTAAAAC AATGTTACAC
72151 CTTTACAAAT ATTTGTTGA AATAGAAAGT TGTCACAAAT ATGCTGTAA
72201 GGGAGGGAGGA AAGCAAGTTC TAAAAATAGA ATGTAAGTGA GTTCCAGT
72251 TTCTAATCTG AATAAATAAA TAAATGAGAT AAATATGGAA GAATATAGAC
72301 TAAAAATTGA GGTTTATTTC TGACTAGTCA GTTGAATAA TTTTCTTTC
72351 CTTCGTTGTT ATCTGTATTT TCTAATATT TCCCACAATA AACAGATACT
72401 ACTTTTATAA TGGGGTAAAT ATCTGATGCT AACCAGAGAC CAGTGCATGC

72451 CTTTCCGTCA TGTGCTCAGT TCATTCATTC ATTCACTTGC TTATTCACCA
 72501 TTCCGTGTGT ATTTGCAGAG GATCTACTGT GTGTGAGAGG CCCTCTGCTT
 72551 GGTGATAGCG AAAGAAAGAT GAACAAGGCCA TTGTCCCTAC TCTGGAGCAG
 72601 TTCAGTCTCT CAGTCTCTGT GTAAATAATA ACCTAGTGCC ATATGCACTA
 72651 TTATGACACA AAACAACGAC ACTCATTAGT ATGAGAATGT TTACTTCCTC
 72701 TTCACCCCTC TCAGTCCACC AAAGAAAATC CCATAATTTC TAACCCAATT
 72751 TCTATCCCCC TTGTCCTAAT CTACTTGGAC TGCTATAACA AAAATGTCATA
 72801 GACTGGGTGG CTTAACGACAC AGACATTGT TCTCTGCCGA GAACAGCTCG
 72851 GTCGGGGAGA CCCTAACCTA GCAGCGCTAG AAGAATTAAA GACACACACA
 72901 CAGAAATATA GAGGTGTGAA GTGGGAAATC AGGGGTCTCA CAGCCTTCAG
 72951 AGCTGAGAGC CCTGAACAGA GATTTACCCA CGTATTATT AACAGCAAAC
 73001 CAGTCATTAG CATGGTTCT ATAGATGTTA ATTAACCTAA AAGTATCCCT
 73051 TAAGGGAAAC GAAGGGACGG GCAGAATTAA TTGCAGCAGG AACATGCCCT
 73101 TAAGACACAG ATGGCTCAGG CTTTGTGTTG TGGCTTAAGA ATGCCTTTAA
 73151 GCGGTTTCCC GCCCTGGCG GGCCAGGTGT TCCTTGCCCT CATTCCCTTA
 73201 AACCCACAAC CTTCCAGCTT GGGCGTTATG GCCATTATGG ACATGTTACA
 73251 TTGCTGCAGA GATTTTTTA ATGGCCAGTT TTGGGGCCAG TTATGGCCA
 73301 GATTTGGGG GGCTTGCTCC CAACAGTTCT CACAGTTTG AAGGCTGCAA
 73351 AGTCCAAGAT CAGGATGCTG ACCAGCTTGA TTTCTGGTGA GGGTGCTCTA
 73401 CCTGGCTTGT AGATAGCTGT CTGCTTGCTC TGTCTTCACA TGGTAGAGAG
 73451 AGGGAGAGAG TTCTCTGTGC CTCTTCTTAT GAGGCAACC ATCCGTCAAG
 73501 ATAACCCCCC TCCCTACGAC CACAGTTAAC CTTAATTACC TTCTTGAAAG
 73551 TCTTAATGCC AAATATAGTC ACATTGGGA TTAGAATTTC AACATACGAA
 73601 TTTTAGGCAGG GGCACAATTG AGTTCATAGC ACCCCTTTT CTTCTTTTC
 73651 TCATTAAGAG GCAGGTTGGC TCACATATTA AAAGGATGAA AAGGAGGTTG
 73701 CATGGAAAAA AGGAAGGGAG TTGCAGAGAA GCTGGGAGTG AAGAGATTAA
 73751 GACAATTTC GGAGAGATGC TGGGGACAGC TGGGGATGTG ATGCTGGGA
 73801 CAGCTGGCG TGTGAGGGAA CTGGGGGAGA AAAGAAGGGAA TGGTATCAA
 73851 TGTCTCCATG AATTAGGTAT TTGTATCTTA GTAACCATT TTGAAAAAAG
 73901 CAAGGAAAGA ATTTGTGTTG TTAAATTAT TTTTGACCTT GGGGCTATGT
 73951 TCCCTCAACC ACATTATTCT TCTGAGGCTG GACCTTATGA GTTCTGAATT
 74001 TAATGGTCC ACAATAATAG TCATCATGGG CACATGGAGG GCAGAGCTAT
 74051 CTGAAACTTC ATCACTAGGC ATAAAAGTAA CAGGAATAGT GTGAAGAAAT
 74101 ACATCAGAAT ATAAGGAATT CATTACTGTA GTTAAATGTA TTAGAAAAGA
 74151 TCCACTTTT ATCCGGAAC TCAGTTGCC CGTGCCTGG ACTTGTCCC
 74201 GAGTTAGAAC CAAATTCTAG AAGGCAGAGA AGGCCTCGAC TCACTGGAAA
 74251 ACAGCAGAGG GAATTTCCTTA CTGACCTTTT CTTAAACTCA AGTGACAGAA
 74301 AAATAATGTG CATCTGATAG TTTAGGATGA TTTGTTAGCT TTAACATGGA
 74351 GTCTCCACTA TTTCATAGGA GACTCAATT ACTTATTGTTG TTTTTTTTTT
 74401 TTACAATCAG GTTTTTTTA ATACAACCAAG TTTATTTCAG AGGTGATGGG
 74451 TTCTTTGACT TCCTTGAGTC CAGAACTATA AGCCAATAAC TTTCTGTTTA
 74501 TTATAAATTAA GTCTCAGATA ATTCTGTTAT AGTAGCACAA AACAGATGAA
 74551 GACAAGTAGG TGCTCGAGGA GAATGTTAGG CCCAATGTAC AGTATTAGGC
 74601 CTGAGGTTTC AGGAGGAGAT GTAGATGAGG AGCACTGCAG GAGGAGCACT
 74651 GCAGCAGGAG CAAGGACTCG GGGGAGCCAG AGCTGTGGGA GCACCTGGAG
 74701 AGAGAAAGTTG GGGCAGGAAA GGGTGTAGGG GCAGGATGAA GACTCCTCAG
 74751 GGGCACTTAG ATCCACCACC CACTCTTCTT TATTGAGGCT CACAGTCCAT
 74801 CTGCTCTGGG GTGGGCACTC AGGGTGAECTC ATTTCCAATG TGGGATGAGG
 74851 TTGCTGATGA AGCGAATGTT TGTTCCGCTC CTCACTAGGT TTTGCTGAAG
 74901 GTCTGTCCTG CCCAAAGCAG GGTGGAGATA ACTGTGAACA TGGAGAGCCT
 74951 GGCTTAGTTT TCCTATTGCT GCTGTAACAA ATTACACAGG ACTGGGTGGC
 75001 TTAAGTATAA ACTTACTGGC CAGGCATGGT GGCTCACGCC TGTAATCCCA
 75051 GCACCTTGGG AGGCTGAGGT GGGCGGATTG CTTGAGGCCA GGAGTTCAAG
 75101 ACCAGCCTGG CCAACATGCC AAAACCCCTGC CTCTACTAAA AATACAAAAA
 75151 AATAGCTGGG CATGTTGCTA CAAGCCTGTA GTCTTAGCTA CTTAGAAGGC
 75201 TGAGATGGGA GAATCACCTG ATTCCAGGGAA GTTGAGGCT ATAGTGAGCA
 75251 GAGATCACAT CACTTACTC CAGCCCGAC AGCAGAGGGAA GGGCCCTGTCT
 75301 CAAACAAGCA AACAAACAAA ACCCAACAAA TACCCAGAAA CTTATTATCT
 75351 CACTCTGGG AGTCAGAAGT TGAGATCAGT TTCACTAAC TAAAATCTAC
 75401 ATCATGTAGA TTGTGAAAGC TACATCATGA CCATGAGGAT TTTTTTGTT
 75451 AGCTCTAATT CCATGATAAA GCCCACAAGT CCCCTCTGTT TCTTGATCAA
 75501 ACTCGTAGAA TCCACGAAGT GCTGTTGTT GCTGAGCAGG AATCCCTGGA
 75551 ACTGTGCCCT AGAAGTTCA CAGCTGAGAC AGGGTCTCTG GGGTTCATTT

FIGURE 3, page 24 of 188

75601 CTGGTTGGAT GCTTGGGTT TGGAGATCAC CTGCCCTGGC TGTGTTTGT
 75651 CCTCTGAATG GTTTTCTCC AGGTACTCCC TTGACAAAG GGGAGACTCC
 75701 AGGGCCCTG ACCAAAGGGG AGACTCAGGA TTGGTACTCT AGGACTCTGG
 75751 CTGGCCAGCC CATCTGTGAC CGGCCTTCT GAGCCAGGAT GGCCACAGGT
 75801 GACATTGCCCT CTAATGATGT TGTTAAAGGA GGCTCTGACC TTGGTTATCA
 75851 GAGCAAATCC AGCGTATGTT TACCGTCAA TGTACATTTT TGTCTGTTG
 75901 TGTTCAAGAGA ATCAGAAAGTC CTTATGGGGT AGATAAGGCC TGTTCTGAC
 75951 GCCCAGAGTC CTGTTATGA GTGGCTCATG AGAGGGGCCT CTGTTCTGTC
 76001 TAGCAGGGTC TTCCCTGGGA GCTCTTAAGT AACAGTGTC CTGGGTTAAC
 76051 CGGAATACCT CCCTCCCTGG CCTTGTCTA CAATAGAGGC TTGCGGTG
 76101 GCCTACACAA CAAAAAGGA AGCTGTTCT ATTCCAATC AGATCTGGAG
 76151 ATGATATTGA ACATAATTCT CTATGTTAGG AATGTAGAAA ATACACAGCA
 76201 TGGAGGGAT AATGTGGGGC ATTTTGTGGT GACTGTAGAT TCCGGAAGT
 76251 TATTTATAAT AGTGGCCTA TGGGGCTGCC AACAAAGTGCA GAGGCAGTTC
 76301 TTCTTCTAC ATGCTCTAAC GGAGAATCTA TTTCCTGCA CTTCTAGTT
 76351 TCTGGAGGCT ACCTGCCCTC TTGGCTTGTG GCCCCACATC ACTCTGACGT
 76401 CTACTTGTCT ACTTCTGTCA TCATGTCCTC TTCTCCGACT GTGACCCCTCC
 76451 TGCCCTCTT TTAGAAGGAC CTGTGATTGT ATTGAGCCCT CCTGGATCTT
 76501 GCAGGATAAT TTTCCATCC AAGATCCTA CCTCACTCAC TTCTGTAAG
 76551 TCCGTTTGC AGTGTAAAGAG AACATATGTA TAGGTACAG GCCTAGGATG
 76601 TGGATATCTG TGGGGCCGT ATTCCATCTA TTGTGAGGCA TGCCCTGTC
 76651 CATCCCTGAC CTGGAGTGT A TTGGTTTTC CTTCCACAG TAAAGGCATG
 76701 CAGATTATTG AAGGGTTGTG TCCTACGGG ATGGATGCCA GGAATGAGCT
 76751 CACTGGAATG CTTTCAGTAT GGTTCTTTG AGAATATGAC TGTGAGCGAG
 76801 GAGTCGATG ATTTCCGCC TATCACAAA CCTGTGGTGC TGAAACTAA
 76851 AGCTTGACTG GCAATTGGAG AAGGATCATC TTTCCCTTCA TACTTTCTCA
 76901 TTTCACACTG ATTATATTGCA AGTTGTAGCT CACAGTCTTA GCAAATGAAA
 76951 CAATTTGTTG CTCACCTCCAT CGCTGTTCAT TCCCCAGAGC TGAGAGGCCT
 77001 GCTTAGAAAA ATGTTCTTT AGGGAAACAAA TGCACTGTGG AGGGGCTTGG
 77051 CTGCTGCCAG TGTGGAGGGA TCCACACTCC ACACCTCAGCT CTGGCCCTCA
 77101 GTCTTCCAG GGGATATTCC ACGGCAGAAG TAGGACGCTT AAGGCCTCAT
 77151 GAGTCATGGG TAAGAATAAT CCTGAAACTC ATGATGTGGG TCCCTCTCTG
 77201 ACAAGGTGAC CACAGAGATT AGGGCAAAAG TCAGGGCCCC AGACATCTCA
 77251 CTTCCCTCCCC TTTCATGCCT CACTCATACC ACTGGGGAC GGGGTCAGCA
 77301 CATTCTTCCA AAGAGGTGCC TTGTAACAAT TGCTTAAAG GAACATGTTG
 77351 ACAAGAAGGT TGCTAAGATT TCGATGGAAA GATGTTGAAA GAAACCGTGT
 77401 GAAGAGAGCA TCCCACAT GATCAGCCAG TGAGACACAA GGAGGGGTCA
 77451 GTCCGTGTGT CTGAGCCCAT CCTTTCTGC ATTGCTCTCTC CCGGCAAAGA
 77501 AGAATATCGG CCCTATCCAG GGCGAGCCT CATCTTCAGT CCCACCTTCT
 77551 AGATCTGAGT CTGGCCCATG TCCAGTCTGG GCACAGCCTA CTGTGGTCCA
 77601 GGCTTGCAGCA GCATTTGGCA CTGGGGCAAG ATCCCATATC AGAGTCTGTG
 77651 GGTGTTAGAG CGAAAGACCA CGGAGAGCCC ACTCAGGGCC TGTGAGGTC
 77701 TGAGTCTCTG GCCCAGCTCA GCCTGCCAGG TCTCTGCCTGGGG
 77751 GCCTGGGTAGT AGCCCTTAGT TAGGGGTTTC TTGGCCCTCC TCTGTCAATG
 77801 TGCCCTGTTT ATCTGGGGC TCCATGGTA AGGGTCCCTG TTGTCGGGGC
 77851 AGGGTCCCTG GCCATAGGTC CACCTAAAAG TGCCACAGCC ACACAGCAAT
 77901 TTCTAGCTGG AGGAGATGAG GTTCTCTTC TAGCTAAACT CATATGTTCT
 77951 CCAGGACACA TGCAGGATAT TATGCCCTGTG TCTTATCTTC TTCCCTCACCA
 78001 CAATCTCCTT GAAGGCAGAA ACTAGATTG CTTCAATTAA GCTTATTTAC
 78051 TTGTCTTGT CTTCAAGGC CCTAGGCTAG TGTTGAGCAC ACAATGCATG
 78101 TCACGTGACT GAGGATTACA CGTGGGCCCT GAGAACTGCT CCATTGTGAA
 78151 TGTCCCTGAG CAGGCAGCGA AGGTGCTGAG GTGGGCACCT GGAGTCCAGC
 78201 AAGGTGTTT TAAACCTGCTG TAAACCTGAA TTCCAGCATG AGTGGGGAGG
 78251 CATTCTGCG GCTCCTAACG GTGCTATCCA GGGCCGCAGT GCTCTTGGCT
 78301 CATGCTGCAG CTTCAAGAGA TGCTGATTG CTAGTTTCC CTGAACTGTT
 78351 TTTTCTTCTC TCTGAGATCA GTGATTCCCA CGTCCGGTTT TACAGCACCC
 78401 CAGGGTGTCT CCAGCTGTCT CAAGGGCTGG CACAGAAGTC TCAAAACCAT
 78451 TTGCTTCAA AAAAAGAACAA ATACACAGAA TACAGCAGTT TTAGCTGAAT
 78501 TTGGAGGCAG GAAAGAAAAA AAGTCTAACAA AAATCCAAAC AAGCAAATTG
 78551 GGTGTCACAC TCCAAAAGC TGGACTCGCT GCCTTAGAAA AGAGAAATGG
 78601 TTACACAAAG TCACGTCTTC ATGTAATGGT TTGGATCCGT GTTCTGAGGA
 78651 CTGCTGCACA AATCCAATCA GACAGGACGC TTAAAAAAA AAAAACCGA
 78701 AACATTTAT TGCTTATTT TCCTTCCCA TAGAAAATAA ATATTACACA

78751 GATGAATAGC AATATACAAA AAACCATTCA ACAGAGTTCT GAACCAGCAA
 78801 CTCTGAAGGG TGAGTCTTC ACGAAGCAGA ACTTTACCAT TTGCTGAGCC
 78851 TCTGTTAGG AGAGGGTTTA GAACCAGAAA TGCCCTGTCT GGTTGGGAA
 78901 TCTTTAGCT CCTTGATCAG GCACCAGGGA GGCAGTGTG TCTAATTATC
 78951 CTCATCTATA AAATGGAGAT GATAATAATC ATACCTCATA AAGTTAGGAG
 79001 AATTCAATAA ATTAAAATTT ATGAAAATCT TAAAACAGAG GTTGGTGCAT
 79051 AGTAAGCATT ATGTCAGTGT GTGCTCAAGA AAGCATTGGG AGCCTGCAAT
 79101 GTACCAGGCC TGGTGCTAGC TTGGTAGGTT CCTGGGCTGA CTGTTTGTGT
 79151 CTGGGTTGGT TTTGTCTCA TAGGGAAGAC AGAGAAGGAG ACACCTGAAT
 79201 AAAATACCTT GTGATGAATG CTAGTTCCCC ACAGAGTCAT GTGAGGATTC
 79251 TTAATTAAAA CATGGATTCT GGTGCTGGCA TTTGTTGTTA ATATTTGGG
 79301 CAAAGTCATTT ATCTTTCTG AGCCTTTGGG TATTCACAGG GAATGCTAGG
 79351 TTCCAATAAC AAATAGTCTC CATGATTTCA GTGGCTTCAC ACAATGGACA
 79401 TTTACTCTT GCTCCAGGAA CAATTCTGAG CAGGTGTTCA GATTGTCAAG
 79451 GCAGCTGTCT TCCACATGGC CATTCTGGA TCCAGGCTGA CAATGGCTTC
 79501 CAAGATTACCA CTGGGGATCA GCATCCCAGG CAGCCGGAGC AAGAGCATGG
 79551 AGGCTCCCCC ATGCGTGTGG GACGTTCTCA TGGGCCAGAC CTGGAGGTGG
 79601 CACTGCTCAC TGCCATGCAC ATTCTCATGG AGGAGACTTA ATCACATGGC
 79651 CACATCTAAAT GGCAAGAGG GCTGGAGATA GCGAACAGCT CTGTTGCAA
 79701 ACAAGAACAG GTTTACTAG ACATCTCAAT TTGTTTATTT CTAAAATATG
 79751 AGGTGGTATC CCTGCCATGC TGACTTACAC GGGTTGTTGG GGGAACATG
 79801 CACTATAATG GATATCAAGT CACCTGGGAT GGAAGGAGCT GTGTGGACAA
 79851 GGGAGTTGTT GGCTGGGAAC AGTGGCCTTG GCCTGCAGAA GAGTGGGGCA
 79901 GGGGTTCTGC TGGTGTCTCA GCAGCACAAC TCAATTCAAA AAGTGTTCAC
 79951 AGAGGAGCGT GCCAGGCTCT GCCCTGGGTG CTAGGGATGT AGTCATCCCA
 80001 TGACAAGCTC AGGGAGGAGG AATCACAGTT CAGCGTGACA TGTAGCATGA
 80051 GAGCTTGCAT GTGGTGTGCA ATCCAGACGC GGTGGTCAGG ACATCCTTCC
 80101 CAAGGACAGG GCATCTAAC AGAGAACAGA AGGAGATGGC CCAGTGGGGC
 80151 AGGGTGGGGC AGGGGCCAGG TGGAGGGAGG GTGTTAAAG CAGAGAAAAT
 80201 TCCATGAGAG CAAGAGAGCA TGGCTTGAGT TAGGAACAAA AACTCAATAT
 80251 GAGCAGATGT TAAATGGAGG AGAAGAACCC AAGAGTTACC AGAAAGGTTG
 80301 GCAGAGCTTG TAGGCCATAG TGAGGCCTAA TGGGCAGCTC ACCTTTCTGT
 80351 GGGAAATCCC CCCTTGTAA AAGGTGACTT ATTTCTTAGA GCCATAATAG
 80401 TGTGTCTTTG AAATTGTTAC GGAAACAGCA AGAGGGACA TGGCATTTTA
 80451 CCTGCAACCA CATTCCACCT GTTCCACTGT GTACACCTGA ACCAAATCCC
 80501 TGAAAATGATA ACACATTATCA AGGTTATTCT GTGGTGTCTTG GGCTAACCC
 80551 GATGACCAGG TTCACCCCTCC TTCCCAACAT AGGCATCTGG CTGGAGGAG
 80601 CTAAAATTAAAT AAGATTGTG TCTTAATAAC TTGCAGGTGA GTGCCAGTG
 80651 TTCCCTGGGG GTGGGAAGCC AAGCAAGGCC AAGGCTGCCA TGTGGGGTGG
 80701 CTGACCCCTG GATATCAGGG GGGTTACTTG GACTCTTTG TCTGGGCCCA
 80751 GAATTGACAT AGCTGTCTGG GCCAGGCACC CTGCTGGTTA TCACTCCATA
 80801 GCTCAGTCTG TGTGTGATGT GTCTTTGCA CCTTCACCTT CATGTTTCCA
 80851 AATAAGGAAA AGTGCATGG AGAGAACGGG AGAATATTTC TATAATGTGA
 80901 ATGACTCTTG CTACTCTGAG TTCCCTCAGC TGTTCAAGTT ATAATTCTTA
 80951 TAGGATCAGT TCAGGCCCTGC ATTTCAGGG ATGATGCTTG GCTGTTAAC
 81001 AGCATTATTAT GTCTGGAATG CTTATAACAT CGGTCAAGTTA TGCAGTGAAT
 81051 GCACTTATGG GTGTGTGTGT GTGTGTGTGT ACACGTGAC
 81101 ATCTCAGAGC AAAAGAGATC ACAACTGAGA GGCTGAGAGA ACAGACACTG
 81151 GCTAGCCCTG CCTGATTGG GGGTGAACCC TGGTCTTCAT GAGGAGTCAG
 81201 AAGCAGTTTC TAGTGAAAGT AGCATGTCTC TTTGAGGCAT AAAGCTTCAC
 81251 CAGTCCTCTT GGAACCTTGA CTAATTCTTG ATTCTCTGGT TCCATGAGCC
 81301 AAGCATTATA CTAAAATATA CCCCTCAATT TGCAGAGAAG TGGAGGTGT
 81351 TCAAACACAG AATCAAATAA AAGGATAATT TTCCATCTTC TGCTGAAACC
 81401 TCTCATTTC CAGCAATGTA GAAACAAAAC AAGAGACGAG AGGACATGTG
 81451 GGGACTGAGA ATGAGTGCAT TAGCAGTCTT TTGGAGATAC CCACACAGAC
 81501 CTGATGAGCT TCTCAGGACA GAGGGCTGCA CTCAGGATTC ATCCTCATCC
 81551 ACAGTGTATTG TGGCTGTGTG GACTTACACA ACTGGCAGCT TGCTGCCAGT
 81601 TGCCGCTCTG TTGGTAGGA AAAAGGAGGA CTTGGAAACT GCCTCCGGAG
 81651 AGCCTTTGG AGGTGAAGGA AGTTGGCTGG CAACTCTGTC CACTCAAGCT
 81701 CAAAACCTCA GCCCGTTCAC CAGCTCCTGT TGGTCCAAGT CTGAATTGTC
 81751 CAGGTGGGCC GACAAGTTCT GCTCCTTCTC CTGTTCGCA TTCATCCCAT
 81801 CTCCTCTGC TACTCCATG TGGTCAAAGT CCTCATCCCC AGCTCCCTGC
 81851 AAAGGCCTCC CCATGAGCCT CCCTGACCCCT GTCTGCATAG CGCCACTTCA

FIGURE 3, page 26 of 188

81901 CAACTCGTCC GCAAATGTTA TCTTCTCACC ACTGGCCAGC TCAGTTGGGG
 81951 TTGGAGTGTG TGTGATAAGC TAATCCACGT GGAGATCTAA ATGGCCTCCA
 82001 GGGGTCACTTA GGAACCCCTCA CTTTTTTCT GCCCAAATT CAAGACCATC
 82051 CGTGGGGGAT CCTTACCCCTA CCTCTCCAAT AGGAGTCGCA CCCTAACCCA
 82101 GCAAGTCCCC TTCGTTCTGG CTGTACATTT GGGCTTCCC TATTTGTGAA
 82151 TGGATTCTCC TCTTCCTCCA AGACCCAGCT GAGATCTCAT CTCTGCAAAG
 82201 ACTTCTCAGT TCCCTCCTGT TCACCTTCTT TCCCTCAACA CTCAAAACCC
 82251 ACCCCTCATT GTCCAGTGT TGATAATGAG GCTACCCCT TGGTTTCATG
 82301 AATTGCTTCA TCTCCCCAGC TGTATAGTGA AGAGAATAAA AATAGCCACA
 82351 GTGTATTGAT CATTTACCGT AGGCCTCATA AATATCATGG CATTAGTAT
 82401 GTCCAATAAC TGTGTGTGAT AAGTATCAAT GTCTCATTGT AGTTAGAAAA
 82451 TCACAGTGCT AGGTATCAAA GCTGTTCATC TGTTAAAGTC GTGCTTTCCCT
 82501 CAGGGGCCCTC AGTGTGTG TGCCGTGAGA GGTGCTCAGT AGACAGTTGA
 82551 GAGAATAACA AGCTGCTCCG TCTCCCCCAT GACCTAGCA CCCAGCACAG
 82601 TGCTGAGCAT GTAATACATG CTCAACTAAT ATGTCTTGA CAGACATATT
 82651 TGAAGGCATA AAGAGCTTAG AGAATATTGA CAGTCCCCAC TGGCTGATGG
 82701 AGTAAACCAG GGCTTCAGGA GTCAGTCTAG AAGTCCAGAT TCTGGTCCGA
 82751 GTCCTGCACT GGTCAGCTGA GGGACCTCGG GTCCTGCTCA CCCCAGACT
 82801 CAATTCTTC ATTGCTATGA CAAGGGCTTG TGACAGGTT CTGTGAACCTC
 82851 TGBAATTCTT GATGCTTTA CTCATTCCT GAAGAGGTTA ATTAGGACGA
 82901 AGTGCTTTT AACTGGCAAT TACACTGCTG CGATATAGCT TGTTTAGTGA
 82951 GGCGGGCATC ATTGCCAAGG CCAGGACGGT TTCTGATGAT CATTGCCAG
 83001 TCTCAGGAGA ACAGAGACCG TGAGGAGACT GCTTAAGATG AATAAGAAAC
 83051 TCCCCCCACT CACCATCAAA TGAGAAAGCT ATGGATCCAG AGCTGGGAA
 83101 CACCACTGGG CAGGATGGTT TCAATGCCCT TAATTAGCT TGCTCTAATT
 83151 CTCCCTAAGC AGCTCTTCT CAGTGGGAAA CAAAGAAGCT GCCTTGAGT
 83201 GGGAACTCTG TGTATCCTTG TGAGGTAGAA GTCAGGCACA GGCTAACCAAG
 83251 ACATGGACTT GGGCAGTGC GGGGGAAACA ACCCAGCCCT CAACAAGCAT
 83301 CACGCTTGGC TTGGCCAGCT CTGTTGGGG TGBAATGTGC GTGATAAGCG
 83351 AATTACACGTG GAGATCTAAA TGACTGCCAA GGGTCATTG CATTCTAAC
 83401 CAAAGGGATA CATAATTAAT GGTAGCTCTT GAGACATCAA ACTGACATAT
 83451 CGACTGTGGG CCTGTTTGC CAGAACAGCG GAAAGGCTGG GGCACCCGTC
 83501 TGCTGGGAAG ACTCCATGTA ACAGGGTTAA AAAGGTAAAG TTTCAGAGGA
 83551 CTTTCTGATC CATGAAGTTA GTGGTGCATG TGTCTGTTCA GGGACTCCTC
 83601 ATCTAAAGCA TTTACAGACA TATTAGCAAG ATTAGGTGAC TCCAAAGGGC
 83651 TGTGAGGAGG ACTGAGTACA GTGAGGCCAA ATTCACTGCCT GAAACCTAAC
 83701 ATCTGCCAGT GCATCTGAGT GGGTGCCTCAG TGGGTGGCCT CACTCACTAG
 83751 CTGGGCCAGG CAGCGGGATG GCTGCCCTTT GTGTGCAGAG GCCCATGGGG
 83801 GCTGTCTGTT GGTGTGATT TTCCCTGGCTT TAGCGCTATA CGTTTGAATC
 83851 ACTGCACTAT TGTACAACCC ACCCAGGGC GGGGTGGGG GTGCATTCT
 83901 GGAGGGCCCT CTATGCACCT GTTAGTATTG CAAGTACGGG TCCAAAGAGA
 83951 CGCAGCTTGG AAGAACGACA CGTTCTGTGG TGCCCCCTGTC TACAGCAGGC
 84001 TTCTCTGCGC GAAGTTGTT TAGCCCTCTG TTCTGCAAGT TACAGCATCT
 84051 TGAATGAGGC AAAAGTACAC ACGGGCAAAT GGTGTGTAATT CCCTACAAAC
 84101 TCCTCAGAGT TGACACCCTCCTCGCCTTTC TTCTTGCTTT GCCAGAGGCT
 84151 GTGACTCTGG CTCTTCACTC TTCAGTCATC ACAAAAGCCTT TTCCCTTTAT
 84201 CATGTCAGAC CTGGAAAAC CCACAGTCAT GAAAATGATT TATCTTCCTA
 84251 AATTGTCAGT GATCTCCCAT TAGGCTTAGG ATAAAATCCA ATTCTTCCCC
 84301 AGGCCCTCAA GGGCTGTGAT GATCTCACCT CTGCCTGCCT GTCTCCGTT
 84351 AAGCCCGTCC ATCTCTCTCT CCAGCTTCCC ATGCTCCAGA CACGCTGACC
 84401 TGTCCCTCTT CTGCCCTCA AGCAGGACAC ACCTGCTCCC ACCCTGGGCC
 84451 TGTGCACATG CTGTGCTGTC CCCTCTCCCT GAGCGCTCC CCTCGGATCT
 84501 TTTGTGACTG CTGCTGCTC ATCTGGTGT TCCCCAGATGT TAACCTCCCA
 84551 GAGAGACCAC CACTGACGTT CCTGTCACAA GGACACCCGT CTTCCCTGCC
 84601 CACCTGTGAC TTTGTTTAG CTTCTTCACA GCAATTGTTA TTATGGGAAA
 84651 TTGTCTTATT TATTGTTAA TGTCTGTACA GTGGACTAGG ATGTCGGCTC
 84701 TAAGACAAAA ATGCTCTC AGACTGGTA TTTTAAAATG TGTGTTCAAAT
 84751 TTACAATTGT AATAAAATGGG TAACATAATA AATAATAAAAT TGTATATTAG
 84801 GTCCCTGGAC TGCTGTTGAA TGAATGAATG GCAACAATGA TAGGAGTAGT
 84851 TGCTGTTAT TGAGTACCTG TTATGTTGCA GGCTCCACAT TTAATCATCA
 84901 CACCAAACCC AAGTGACCAAG TGCTGTCAC CTCACCTTAC ATATAAAAAC
 84951 ATATTAAAAAA AAACCAAGAT TCACAAATGT TACATGATTT TCACCTTTGT
 85001 AATAGGCGTA ACAGCCTGGA TTCAAGCCCA GGTCTGACTG GTTCAGAAAC

85051 CCATGCCCTT TCTCTAAAGA AGAAGTAGGT AACTTGCTAT GTCATCCACT
85101 ATCTGGTGGT TTTCCTGCT GGCTGGTTT CCCTTCTCT CCCACTCTGC
85151 ACCCACCGCAG CTCCAGGCAT GGATGCCAGT CCATTCAAGAT TTCTCCTATG
85201 TCTGTCTGT GTTAGTCTAC TTGGGCTGCC ATGACAAAGT ATTGCAGACT
85251 GGGTGGCTTC AACACCGGAA GTTTATTTC TCACGGTCCT GGAGGCTGGA
85301 AGTCTGAGCC AAGGTAATGG GAGGATTGGT GAGGCCTCTC TCCTGGGCTT
85351 GCACACAGCT ACCTCTTGC TGTGTCTCA CATGGCCTTT CCTCTGCACG
85401 CATGCCGGGA GAGAGACGGC TGGCGTCTCT TCTTATAAGG ACACCAGTCC
85451 TATCAGATTG GAGCCCTGCC CTCCTGACCT CATTTCACGT TAATTACCTC
85501 CTTGAGAATT CTAACCTCAA ATATAGTAAC ACTGGGGTTA GGATTTAAC
85551 ATGAATGTGG GGTAGGGGG ACTCGGGGGT GGCAGGGCA CAATTCAAGTC
85601 CCTTACACAT TCTGTGGAA CACTTTTCC GATGCCCTAA TTATACCCAA
85651 CTGATTAAAA TACAAAAGTA ATATTAACAG TTCCCAATCA GTGCTTGAGG
85701 GCTAGAAAC ATTGAAATAT GTGATCCCTG CCCCCGAGGC ACTTAGCGTT
85751 TCAAATCTCG GACTCATTGA GTTGTGTCT TTATTAATGA TAATTGGGGC
85801 TTTTACAATG AATGCTGGAT GCCCCTGTG AAGCCCCCTCA GCCCTGAAGG
85851 GCCACTGGGG CAGACACATG CTAAGAACAGT GTCAATTGGA TAATCAATTA
85901 GCTTAATTAA AAAAGTGGCA GCCACTGAGA TAGGAAATGT GAAAGATGCT
85951 ACTGAAAATT GTTGTAGCTG CAAGTCACAT CAGAGAGATG TCTGCATCAG
86001 CATTATATCA TGATTGGCC TCCAGAATTG AGGCAGAATG TGAGAAAGCT
86051 GGAGAAGGTC CAGAAATAAA CAACAGGATG AATTAAGGGA GAGAAAATAA
86101 TGCTATGAGA AAAGGTGATA AGAGTTGCAT TTTTATTTT TAAATCCCA
86151 ATGCCCAAGA CATTGTGGCA CATAGGTAAT TACTATCTTC TAGGGTCGTT
86201 AAAGGAAGAA TGCTGACCAA CTGTTTAATA TTTTCTTGGG AAATTTAATA
86251 GGAGTCATGG GCTCAAGTCC AGCATAAGAG AAGTGGAGGG GGCAAAAGAAG
86301 CAATCATTAA GATTTTAAAGT GTGATTAATG GCTGAATTAA TTCCAGCAA
86351 GGGATTGCA CTATCGGTGG TCCTGTCTG ACAGCTATTG GTCTGGAATG
86401 GTTCATGTGC ATAGACTCAA GCCTCTCCA CCTGGTAGAA TTCTTGCTCC
86451 TCATAGATAA TTTTCCCCAC AGCTATATGT CACTGTGGGG AACTCTGAGG
86501 GCCTGGGAT CTATACCCCTT ATTCTGCTTT GCACAGTGTG TCCTGAAGTT
86551 TCCACATCTT TGGCACTTAG AGAGCTTAC ATCATCTAAT TCTGCCTTCT
86601 GGCATCTCTT CTCAATTGCA TCACAGTGTCTTGGGACAA CCTGCAGTT
86651 TATAAAATCCA TCTACCTGGA GGCAGGAGAT CAAATCAGAT GACCTGTGAA
86701 GCCCCTTGTG GGTGAAAACA TCTAGCGGCT TTCTTACTTA GAAATTAAAG
86751 ATGGGTGCAG TGTATGGCT GCTCACTCTG CCTCTCCATG AGAGGAAACT
86801 AAATAAAAT TCTCACAAGA CATTAAATAGC CAAATAAAAGA GTTAATAGGG
86851 TTCGTCCTG GGAGTTAATT TAGAAAGAGT TGATAGGATA ATGGGCAATA
86901 AAATAGAAAA GGAAATAATG TTTATTGAGA ATCATTCTT CTGTTAAAAT
86951 GTATTAGGTT CACAAAGGAG TTGCTATTTT GGAATCATTC ATTGATGAT
87001 TCCTCAAAGA TTTCTGAGAG CCAACTAGAT GCCAGGCCT CTCCTGGGTG
87051 CTGAAGATAG GGTGGCAGGC AGTACAAAGC TCCTGCCTTG GTGAGCTTG
87101 AAGTCCTCAT GAATTAGGAT TTCCAATCTGC AAGTGCACAA AATGCAACCC
87151 AAAGTGTCTT AAGCCAGGAG AAAAGGATCT GTAACGGGA AGACTAGTGA
87201 TAACTGGTTC CATATTATTG CTGGATTGGA TTCAAGGCTC ACCAGGGAAAG
87251 CAAAGTGACAG CCTGCCAAC TGCTCAGCTG AATCTCTGAG GTTCCCTCTT
87301 GCTGGACAG CTTGGGTCTT GGGACCATCC CTGAAACACCA GTTATATAGA
87351 GAAGGAAAGA CTGCTGTACC TAAGGTTAAG TGGAGACATG TTTTCCCCCT
87401 GCTGCTGGGG ATGGGGGGTC AGCTTCACCC TAAGAGTGGG GCTGGGGTCA
87451 TTTTGCTAAA GCAAGCTCG GACATGCTTG CCCTAGGAAG GAACAGTGA
87501 TGCTTGATGA AAAAAAAAT TTCTTTAAGG TAGTTACTTT TTAAAGTTTT
87551 TAAACAAACT TCAGAAAGTT TAATCCACAC AGGGACTTCG AACCCACATC
87601 TTTCCTTACA TGGTGTCTC TCAGGAAGCA GCAGGAGAAA TATTTGCCTA
87651 GTCCCCGCTG CCAAGAACCC CTTCTTCCTC CACATCAGCT TTTCCAGTGA
87701 TTCAGACCCA CCCCTCCATC CCATCAGAAC CCATCTAGCC CACACCTCCT
87751 TCTCAGTGTG TAGCTTGTG CTGCCCTAA TGCTACATCA TTCTATATTA
87801 TGCACAGTGA GAAATATATG TATCCAGAAC ACACACACAT ACCTGTGTCT
87851 GGATGATATA TGTGACTTTT CATAAAAGCA ACCCTGCTCT TAAAAACCCC
87901 TTCTGTGAAC ACTCTCCACC CTCCCTGCC TTCTGACAGA TCTCAGGCAA
87951 AGATTACACT TGCTGACAGC AGGAACCCAC CAGCCCCCTA ATTTCACACT
88001 TAGCACCTTG CCATTGGAAG AATGCACCAT TTTTCTTCC TGAAGTGCTA
88051 CACTCCAGGG CAGGTCCTT GTGTCTATG AAAGTGTGT CCATCACTGG
88101 CTGCTTCTCC TCTGGCCCCCT CCCACCCCCA CCCCAACGCC AAATATCTCT
88151 GGGGGCAGCC CTGGGGTTCC CATCTTGGTG CTCCCCACAG CCCTCCGTGG

88201 TGTGCTCTGG ATGGTTGAGT GGAATGGCCT TCTCGAGATG AAGAGAAGAG
 88251 GCCTGCAGCA TGGAAGGGAA GGAGTGGGCA CAGGGCCGTC TCTACTGCTC
 88301 ACTGCACCTC CTCCAGTGTCTGACAAA TTCTGAGAGC TCTCCACCCA
 88351 TCCACTCCAC ACCTTCTTCC CCAAACCTGT GGTTTAAGT ACATAAGCAA
 88401 TGCAAGCCACA TTGCAAAACA AGAAAATGAG GGAAGGAGAA GGGAGGGTCC
 88451 TGAGAAAGGA GAAGAAAAGA GGAAAAAAAG CAGAAGAAAA ATTGAGAAAA
 88501 GAAATACGGA AACCACCTG CAATTGCCAC CTGCAGGTTC TTTTCATGTG
 88551 CATCTGTTTT ATGGTGTAC TCTTCAATA CAGAGTTGCC CACGGTCTAC
 88601 TCTAGCTACT TGTTTATCCC AAGTAATTTC ATGTAAAAAA TTACCCCTCA
 88651 ATCTTCTGTA GCTCGCCTTG CTAGGGTGC ACCTACATCT CCTGCCTAAG
 88701 TATTGTCATT AGACCCAAAA TGAAATGCAT GTGACTTGCA GGGTCAAAGG
 88751 CTCAGTGCCTT TGCTCTCCG ATTAGAAGAT CTTAGGATGA CTTATTTGA
 88801 TTTCTTGTTC CTGATTGTGC CTCTTAGGGC AGAAATGGTT CTTGCTAAAC
 88851 AACAAAATTC TCTATAAAAG GCATCTTGCT GGGGAAGGAG GGATAATACC
 88901 TGTTGGAAA AGTCAAGGTA GTTATTGCA GAAAATACC AAAGGGGCC
 88951 AGGCACCATC ATTACTGCTA TTGCCCCCTCT CGGAAAGGCT GACGTGTTGA
 89001 AATCAACTGT GGCCATCCCG GCTTTCCCTT ATGGTGTGC TTGGAGCGA
 89051 GCAGACAGAA AGAACGCTGC ACGTTGGTGA TTGGGGCAT GACAGCCTCA
 89101 AGGCACTAAC CCAGCACCTG CTTCCTGAGG CCAGCTCAGC ACCTCACAAG
 89151 GTGCCAGGTG CTGGGATAGG AACAGAAGGG ACTTGGTCCC TGTCTGAGAG
 89201 GTGTTCATCT GGGAGGAAGC CAGCCATATG TGTGACTTCT AGTGCCCAAT
 89251 TAGTCAGTGT ACATCCAGAA AGCAGGGGCG CATTCCAGCT TATAGAAGAG
 89301 AAGCCCTGGG GTGAAATGT GTTGTGTGTT TTTACAAACAG TCAGAACAAA
 89351 TGGTGGCCTT TGGAAAGTAC CATGAGCAAT GTTAGATTAT AAGGACAAGC
 89401 AATGGAATGT TAAGGGTCAG AGGCAGGAGG GGACCCCTC CTTGCATGGA
 89451 GCACCTTGTGTA CTCTGCCTGA CAAGTGAGCC TCAAAACAGA GAGCTTGGTT
 89501 TTACAAAAGT TTTTCTTCC CTTCAGGTCT CATACTTTTA TTTGTAAAGT
 89551 GGTGCTAATA ATAGTCTTTC TTCTTCACT GGATTGATGA AAGACTCAAG
 89601 TACTAACAC ATACAAAGAT TATTGTTAAT TTAATGCATT CCATGGGGGG
 89651 TCAGGGATA AATATCCTT GTATTGTT TTTAAGAACG ATTAAATTAAATT
 89701 TTTCCCCAA TTACAAAATG GATAATTG CATTGTAGCC AATTGGAAA
 89751 TATAGCAAAG CACATAAAA TATTTTAAA TTATCATCCA GACATTAAAA
 89801 ACCATTACCA TTGGCATGTA TCTCCCAACC AAGCTTTTC CTATGCACGG
 89851 GTTAAGAAAA ACAAGCATTC AGCATCTCTG TTCTTATATC CTTGTCCATA
 89901 TACTCCTAAT TTTGCTTTA ACATAGAGTC TAGTAGAAA ATTGTTGGAG
 89951 TGTAGAGCAG AATATATGCA GAGTTTCAGA TCTTTAGAAC TATAGTGTCA
 90001 AACTGCCATT TTGAAGGTT ATTCAATTCA CATCCCAGAA ATTGAAGATA
 90051 ATGCTGCCCT CTTCCCCACC TGTCTTTGC TGGGTGCTAA CATTCTAA
 90101 CATCTTTACT AATTGATAG TATAAAAATG GTACTTCATT GTTTTAATTA
 90151 GCCTTTCTT GATTATTGGT GATGAACATT TTTTCATGT GTTATTAC
 90201 CAGTTGATT GATTCTCTG TAGTTTGACT ACTCCTGTGTC TTTTTCTAT
 90251 TGATGTATT CTTCTTATTA TTGATTGTA AAATAACACT TTTATATATT
 90301 AAAGACATG ACTTTTCAGC AAACATTTC CAAGTATTCTT CCCAATTG
 90351 CGTTTGTCTT TTGTTATGG TAGGCTGTAA AACAGAACGG TTGTAATGT
 90401 TTATTTAGTC AAAAATGTT AACTTTTTC CTTTATGGTA TCAGCATTG
 90451 TTTATATGCA TATAAAAGTGC TTTCCAATTG GGCATGGTTA ATTGTTGTATG
 90501 TCCACTTGGC TAGGCCATAG TGCTTAAATA TTTGGTCAGA CATTATTCTA
 90551 GATATTCTG TGAAGATACT TTTCAGATGA GATTGACGTT TAAATTACTA
 90601 GACTTTGAGT AAAGCAGATT ACCCTCCATA ATGTGGGTGG ACCTCACCCA
 90651 GTCAGTGGAA GGTCTTAGTA GAAAAAAAGAC TTAGCTCCCG CAAAGAACAG
 90701 ATAATTCTGC CAGTAGACTG CTTTGGACTT GAATGGTAAC ATCAGCTTT
 90751 TTCTGGACT TCAGCCTGCC AGCCTACCC GCAAGATTTG GACTTGAGTG
 90801 GTAACATCAA CTCTTTCTG GGACTTTAGC CTGCCAGCCT ACCCTGCAGA
 90851 TTTTGGACTT GCCAGCCTCT GAAATCACAT GAGCCAATTC CTTAAAAAAG
 90901 ATCTATTCT CCCCCTCTCT CAATCACCC ACACACACAC ACACACACAC
 90951 ACACACACAA TTAGTTCTAT TTCTCTATAG AACTCTAATA ATATACAGCC
 91001 AAAAATTATG TAAATGTTA TTATATTTT CTTTTAGTAT TATTATGCTT
 91051 TCAGTTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGGTGTGT
 91101 GTGTGTGTG ATATATATAT ATATATTTT TTTTTTTTT TTTTTTTTT
 91151 TTGAGATGGA GTCTCACTCT GTCGCCAGG CTGGAATGCA TGGGTATGAT
 91201 CTCGGCTTAA TGCAACCTCC ACCTCCCAGG CTCAAGCAAT TCTCTGCCT
 91251 CAGCCTCCTG AGTAGCTGGG AATATAGGCA CCTGCCACTA TGCTCAGCTA
 91301 ATTTTTGTAT TTTTAGTAA GAACAGGTTT CACCATGTTG GCCAGGCTGG

91351 TCTCAAACTC CTGACCTCAG GTGATCCACC CACCTGGCC TCCCAAAGTG
91401 CTGGGATTAC AGACATGTGC CACTGACCC GGCAGTTG TACATTTTT
91451 AGTCGGTGA GAGTCAATG TTTGCTATAA GGCGATTTT TTTTTTTTT
91501 GAGACAGGGT CTCACTCTAT CTCCCAGGCT GGAGTGCAGT GGTGCAATCA
91551 TGGCTTACTG TAGCCTCGAA TTCTGGGAC CAAAGATCCT CTTGCCTCAG
91601 TCTCCAAAG TGCTGGGATT ATAGGAGCCC AGCCTCAAGG CAGAGAGGCA
91651 GAGATTGAT TTAATTATCT TCCATGTGGT TAACTAATTG TTCCAACACC
91701 ATAAATTAAA TGACATATCC TTTCTTTTT TCCTGAAAT GACACCCTAT
91751 TTACATGTAT CTTCTAGAT TTTTAGTCTG TTGTTTGAT CTGCCTGTT
91801 CTGCTGCCAT ACCCCATTGT TTTGGTAACC TTAGTTTAC AATGCACTTT
91851 AATGTTAGAG AAGTCAACAC CTCAGACTGC CTTTCTGAA TCTTTTTTTA
91901 GAAATGTTT CCACATGAGT GAATTGAAAT AATTTTGTT ATGTTCCCAA
91951 AAGAAATCCC ATTACAATT TATTGAAATT GTGTTACTGT TATAGGGAA
92001 TATGGAGAAA ATTAAATCT TTACAATCCT GAATTTCCCT ATTCAAGGGAC
92051 ACAGAGTCTC TCCGTTTACT CAACCCCTCCT ATTTTCTCA ATAAATTTCT
92101 GTCATTTCT TCATAGGTGT TTTGCACATT TTATAGACAT TTTATATTTT
92151 TGGTTGCTT TGGATTTTT GTCATTATAA TTTTCTGGTT TTGTCATGT
92201 GTTGTGATTA ATTATATG TAAACAGTGC CTTACTAAAT CTCTTACAAA
92251 TTCTAATAGT AATTGTGTA ACTGTAGATT TTTTCCAGA AAATATGATA
92301 ATTTCTCCT CTTCTTTCA ATGTTTTTG ACTATTATCT TGTTATTCTG
92351 TCTAACTGCA GGGTCTAGAC CTTCCAGGAA ACAAAAGTCTT AGTACATAGT
92401 ACGTGAGCTT CTTGTCTTA ATTCTAAAAG TAAAAGGATT GCTCCTAAGT
92451 GGTTCATAA AATGATATTG GTAAATTATC ACTGAACCTC TAGAATAAGT
92501 CCTCCTTGGT CATGGCACGT TAGTCTTC AAAAAAAAAG AGCGCTAGGT
92551 TTGATTGGT ATTCTTACT TAAGGTTTT ATTATTTTAT TTTTGCATTA
92601 CTTTCATGA GCTGTAGATT TTAGTTTTA CATTTCATTT CTCATATGGT
92651 GGCTGATGCA CTTTGAATG GAGTTAAGGAA ACTCAATTTT TTCAATATAC
92701 GGAATTGTTG AATATTGTT GCCCTCCTAA GTACTTTGAT GTTATTACCA
92751 ACCTTGCTT TTTGTCATTT GGTTTTCTG ACATTCACTT TGCCAACAAA
92801 TATTCTGTA GTGCATACTA TGTTCTAAAT ACTAATTTT ACTGGTTTAT
92851 CATTAAATCT ATATTTTTG TATGTTTG TTTTTTTAA AAAAAAAAAG
92901 CAGGTGATAT TTGTTGAGCC AATCTGAGAA TTATTTATGT TATCACAGGA
92951 AGATTTAACCT TATTATAGT TATTATAATA TGTGTTATGA TCAGAATTGC
93001 TTCTTGAGC TTATTTGTT TTCTGAATT ATGCTTCTT TTTCTTTGTT
93051 TCCTGTATTG TACTCTATAA ACTGTTGTTA TTTTATTATC ATCTCTCAGT
93101 GCCTCATATA TTCCCTAATC TTAAATCTCC CATAGGTTAC CTTAAAAAAT
93151 TTTGGAAGTT TTTTTTTTT CCCTTCCCT TTAAGAGATG GGGGTCTCAC
93201 TTTGTTGCTC AGGCTGGAGT GCAGTGGTGT GATCATGGCT CATTCCAGCC
93251 CTGACCTCCT GACCTCAAGT GATCCCTCCA CCTCAGCCTC CCAAAGTGCT
93301 GGCATTACAG GTGTGAGCCA CCATGCCCTAG CCCTGTACCA CTTCTTAGTT
93351 TCTATTATTA TTAGGAATTG GGAGCCAACC AATGAAAGAC TTTTTGTTAG
93401 TCTTTCTTT CTAAACATG CTGACAATT ATTCAAGCTTA TTAACCAACA
93451 TTATAGCATT TATTAGATT TATCTGTTAT TTATTTGGTT GCATGGCTTA
93501 TCGGGGATTG TTCTATATTA TAGTTTCAGA TGTTAAATTTT CTTTCTTAG
93551 GTTAATTATA TTAATGTTAC ATTTTCAAGC GATGTTTTG AATGAAGAAT
93601 GCATGGGTGT TATATTGTCT TGAATACTGC ATGTCCAAGA ATACAAAGTA
93651 TTACTTTAT ATAGTAAAGA CGAGCTTCCT TATTATACTT CCTAAATAAA
93701 AGTACTTCC CTTACAACTA TGAGACATT GGTCCATTAT CTTCCAGTAT
93751 TTTGTTATCC AGAATAAAAG TCTAAGGGAG GCCTGGTTG TTTCTTTGT
93801 TTAAAAAATA AATTGTTTG TGTTTTCTG GCTAAAATGC TAGAACCACT
93851 TGTCTTGT CTTCAATTATC CAAATGTTA TTTGGGTAAG TGTAGTATCG
93901 ATTTCTTACC ATTTTTCTT CTGGAACATG ATGAATGCTT TTAATCTATG
93951 CTTCACTCTT TAGGAACATT TCCCACAACT ATGCTTTGT CTTGATTATT
94001 TGTTCTAGCC TTGTCCTCTG AAATTGTCGT TGTTAGTGG AACTCTATT
94051 GCCTGCCCTG CACATCTGCT CCTTTCTTC TCTGCACTCT GGGACAGCTT
94101 CTAAAGTTG TCCAACATGT CATTGACTGA GTTTTGTATC ATTTCAAGTTC
94151 TGCTCTTAC TGGTCCTAT GTGGATGCTA ATTATGCAAA TGCAATTTCC
94201 ACCTCTTGCA CTCCTTTTC TAAGTCACCT CACTTCTCAT TTCCCTCATGT
94251 TTTCTCTTA TCCTCTCTC TCGAGCCTT GATTCAACCT CTTGTTCTT
94301 CATCTGTTCC TCTTCTCTAG AGATTCCTCC TGTTCTCCCT GAACCAACGG
94351 TTTATTATTA TTATTATTAT TATTATTATT ATTATTATTA TTATTATCAT
94401 TGAGACGGAG TCTTGCTCTT TAGCTCAGGC TGGAACGCAG TGGCTCGATC
94451 TCGGCTCATT GCAAGCTCCG CTTCCGGAT TCACGCCATT CTCCTGCCTC

94501 AGCCTCTCGG TAGCTGGGAC TACAGGCGCC CACCACTACG CCTGGCTAAT
94551 TTTTTGTAT TTTTAGTACA GACGGGGTTT CACCGTGTAA GCCAGGATGG
94601 TCTCGATCTC CTGACCTCGT GATCCACCGG CCTTGCCCTC CCAAAGTTCT
94651 GGGATTACAG GCATGAGCCA CCAGGCCCGG CCCCCACAGT TTATTTAATT
94701 CTCTTGAGGT GCCGAAGTTC TCTTACGTTT TCTTCTGAAT TCTAAAGTAG
94751 ATCATTCTCA GAGAGGACCC TTCAGGATAA TGTTCTGTT GTGCATGTT
94801 ACAGATTCTA CTCCCACCTC TATCCCCACT CCTTTGTACC AGGCCTCATG
94851 TTGGGTTAA ATCTCGTGT CTTACCCTG AAAAAGAAGT GATCCATTCC
94901 CAGTCACTGC TGACCAATAG TCAGGATGTT TAGAAGCTTT TGTCCCTGCC
94951 GTCTGTCCAT GTGGATGGCT GAAGACAGGT TTAATAGCAT CCAATTCCAT
95001 AGAATTGGAA TTGGAAGAAT TCTATAGGAA GAATCCACTT CATGCAGTT
95051 CTCTTCCAGC CCCACTGGCT GCTGCTCTGC CCTGCTGAAC ACATGGATGG
95101 GCACAGGACA CACTGCAGTT CATACTGTAT ACTGCTGCTG GGGTCTCTGC
95151 TCTTACCCAC TGTGTCGGTG TGAATTTCAT GTATTCCCTGC TTGTCCTAGT
95201 GGTAACCAATT CTTCTCTGTG ACCAAGAAT ACAATTCAAC GTTCTCCCTC
95251 ATATAGCAAT TAATAATATG CATACTGTA AAAAGAAACA ATTCTGCCCT
95301 ATTGGAACAT ATATGATGTT AATAAGTA TACCAAGATA TTCCATGCTT
95351 ATAGTTGGA GTTACGGCTC ATCAAGCAA AATGCTGTT ACAGAAGAGG
95401 ATTAGCAAC CGCAGCTCT CTGGAGGAGG TCTGTGAGAT ACTAGAAAAT
95451 CTTATCCAGG CCGGGCACAG TGGCTCATGC CTGTAATCCC AGCACATTGG
95501 GAGGCTGAGG CGGGCTGATC ATTTGAGGTC AGGAGTTCAC GACCAGCCTG
95551 GCCAACATGG GGAAACCCCA TCTCTACTAA AAGTAATATA AAAATTAGCC
95601 AGGCATGGTA GCTCATGCC GTAGTCCCAG CTACTCAAGA GGCTAAGGCA
95651 TGAGAACCGC TTGAAACCTGG AAAGTGGAGG TTGCACTGAG CCAAGATCAC
95701 GCCACTGCAC TCCAGCCTGG GCGAGAGAGA GCAAACACTGT CTCAAAAAAA
95751 AAAAGGAAGA AAATCTTATC CAGTCTCTGG GCATCACCTT TCCACCCAGT
95801 CCTACCTCCC TGTTGGCAAC TAAGGCTACT GCAGCATCAT ATGCATAAGC
95851 CATTGCTCTT CCTTCTGAGT GTACAGGTAT CTGGGTATAT ACATATGTGT
95901 GAAGGTACAC ATTTATCTTA TTACAGAATA TACTACATAA TTTATGATGC
95951 AGAGTAAAAA GAGATTGAAA AACACATTCA AGTGCCTAAA ATACTGTTG
96001 GGATATGTAG CAGTATAATT GAAGGACATG TACTATAAAA GTCTAATGTG
96051 TAAAATTCTT TAAAGAATTAA CCACATTAT TCTATGCAA ATCTCTTGTG
96101 AAAAACAAA CTGGAAAAAT TCACTGGACA GTAGCTGATT TTCAACTCCA
96151 AATCTCCAAT CTATTGAGA TCCAAGCCCT CTAAGTAAGA TCACAGATCA
96201 TAGTTGTTG CTCACTGTGT CATTGGAA TCTGCAGCAC CTATTGAGGG
96251 TCTTGAAGAG AATCCAGTGA GCTGTGGGGG GATTTGTATG ATCAGTATCG
96301 AGTCTGAAC GTGTGTTGGA CTACATGTGG CAGAGAGAGA GGTGGGTAGG
96351 ACACAGGTGA GAAGCACCGT CTGCCGCCTA CAGCCCCAGG GAAAGAGTGA
96401 CGCTGTGGCG AGGCAGGGTG ATGCGTGGGC TTTGGCTTT GGAGGAGGG
96451 GGAATGGCCT TGCCCACTGTG GGGCCTGCAT GCATGCTCTG TAGAATCTTC
96501 CTCAGTGAAG GATGAGAAG GAGGGTACTG TGGGTTACAT GAGGGGCAAT
96551 AAGGGAGCAA GGACCTTGCA GAATGCTGAA CACTACAAAC ATGGTGGAGC
96601 CATGAAACTG GAACGGTCC AAAGCATTG GCTCCCCACCA TGCAAGCTGTG
96651 GTTGCCTACC CGCCACTCCA TCACTCCACC TTGAATGACG CTCAGCTCTG
96701 TCTTCACCTC TGGCCCCCTT CTGCGCTGCTC CACCCACCAT GCCCATGTC
96751 GCTGGCTGCA TCCCTGCTGC CCTGTCTCTT TCCCTGCTCT CTCAGCCTCT
96801 GAATACTCCT GGCTCTGCA TCTCTCTAAC TCAGCTGGC TTGGATCCCT
96851 CTGGTTCTG CGATACCTCA TTGAGGCT TCCCTCAAGT CTCACTTTAA
96901 TTGGGGCAAA CTGATTAATC ACTTGAAAAAA TTAATCATTT TTTCACTGTA
96951 AATTTCAAA AAGTCTGTC CAGCTGGCTC TGCTCACCTC TTAGGATGTG
97001 TCACGGGAGA GTCTTGGAG TTGCACTGCTT TGGGTCACGT GTGCCCTTG
97051 CTCCAGTTAG ACGTGGTCAC AGCAAGTTGT GGGGTACAAA ATATGGCTGC
97101 CTGGAGCTAC TTATTCAGTT GGGTCTGCCG TCAAGACAGT TTTCTTAGA
97151 AGAGGCTGTG GGTATGGTAA GGATCGTGGT TGACAGGATT GGTATGATGT
97201 TGCTGGCTAC TGGGGAGGAG AAGAGGGAAC AGCGCAAATC CAGAAGCCTG
97251 GTTCTTGTG CTTAAGGTCT GGCTGGAAAG AAGAAGAGCA CATGCAACTC
97301 CATCGCTGAA TGATCCTGAG TATCTCAGGG TGCTGATCAT GTCCTAACCA
97351 GGGACCCAGG CCCATGGCAG ACCACTTGTG CCACAGAGAG ATGCCAGCTT
97401 AGGTTGAGGG ACCCAGAGGA GCCTGGCCCA CAGCTGGTCT GGCTGTGCTT
97451 GGGGTGCCCT TGAAGGCATG GCCTGTGGCC TTGATGGAAC TCAGAGGGGA
97501 TACATCTCAT CTCAGGCCCA GAAACTGAGC TCGAAAAAAC TCCTTGAGCT
97551 GGAGGTGAGA GATGACCAAG CAAGAGAAAC ATCAGTTGCT ACAAAATCAC
97601 TGTAAGAATG GCTTCTGAAA CAGGGGCCAG CCCGAGAGCT ATACAGAAAC

FIGURE 3, page 31 of 188

97651 CCTTTTGAG CGAGAGCTGG CTTTCATGTC CCCATCTCAC AGATGGGTTT
97701 TGACGTCAGA GGAGAGAACC AGCGGAAACC TTATCGACTG GGACACGGCT
97751 GTGGCTCTAG CCTTGCCTC AGATCCATT TGCTGACTCA CCCGTAGAGG
97801 CAGAGGACAG GATCGCAAAG CTCCGTCTT CCAGAAAGGA CTCCCTGGGG
97851 CTCCATGAAG AGAGCGCTCT CAGTAACATT TACACTACAT TTTGTTCTG
97901 TTTGCCTTA AAATGTTTG TTTCCCCCA GTTCTCTTGG AGTGGGAGAT
97951 AAAATCTGG TAGGGAGCTA AGTTTGTGGT TTCTCCTTCT GCTGGAAAAA
98001 TTGATCTCC TGAAAGCTTG CATGGTCTGT TCTCAGGGAA GGCTGGGAAC
98051 ATTGTTGGGT AGGTCCAGTA GCAAACCTCCA GACTCATAAA TGAATCGTGG
98101 AGAGCTGACA GGAAGGTACC ACCTGGACAA CATGAGCTTT AGCCCAACCT
98151 GGGAAATATCC ATGCACAGTC CTTGGGTTT GAAAGGTAAT TTTTATATA
98201 GAAATAAGCA GGAGCTCATT TAACTTACCA CATGGTCTTT TGGGGGTAG
98251 TGGATTGTT AATATATGAT GCCAACAAGG TGTTTIGCCC AGAACCACTG
98301 TGTAGAGGGT GTTGCCTGTGG CTCGTTGTCT ATTGTTTCAC AGCATTGAGG
98351 GTAAGGCAAC GAGGTTCAT TGTCTGGCCA TGCCACTTAA CTCTGTGACC
98401 TTAGACAAAT TAGTTAATCA CACTATGCCT CAGTTCTTTC AACTGTAAAAA
98451 TGGGGATAAT GCTGGTGCCT TCCTCATAGG GTTATTCTGA GGATTAAAGG
98501 ATATAACGTA CTAATACCT TGGCACAGGG CCTAGCATAC AGTGGGCACT
98551 AAATCATGG TTATGATTAT GAAGTATGAG TGAGTGGACC AGATCTTTG
98601 CCTACACTCC ATATCGAAA CCAGATGTT GTCCCTAGAG CTCTGTGGTC
98651 AGTGAACACG TGCATGACTT CTGAGGTTC TGCAAGGTT CAGAGCAAGC
98701 ATTCAGGGT CAAGGCTCTG GTCAGTGGG CACTGCCAG GGCAGCAGGA
98751 GAGACAGAGC TGTACACTG CTCGCCAGC TTCACTGGCTG TCTTGTATC
98801 TGTTCTCCTT TCCTGGTTGC TTACATATGT TATCGTGTAA GGCCATTAT
98851 CCATAATGAA ACATTCAAGAG TGTTTAGCAA CCCAGAAGCT ATTGCAGTCC
98901 TTCGCTGAAG GACTCTGTT TTATGAAATG AATCATTCTC AGGAGAAAAC
98951 AAGTGAAGC TCCAACAGCC ATACTCCTGG GCTGAGAGCA ATAACCAATT
99001 AAATAGCGAG AGTGAACACT CATTGGTCTC AACCCCTTAA AAGTTTTCT
99051 TGGGATAAAAT TGGTGCCTGC TGAGTGATTG GCTTCTCTGT GAGGGTATT
99101 TGGGTGCTGG CTGAAATGAG CAAGGAGGAG GCAGGCCCTG GACCACAAAG
99151 GCTCCTCTCT GATAAAAGAAT CAGAAGAGGA AATTAGAAAA GCAAAATCT
99201 GGACAGGCCA TGAAAAAGAG GAGACGGAGA AGGTTGGCCA GGTCTTGCT
99251 GTGTTGTTAA AAAGAGGAGG TTTCTGTCTC TTGAGAATCC AGAGCCCAGA
99301 GGAGATGAGG TGTGGGGTT GCAGCTCTGT AGCCAGGGCA AAACGTGAGG
99351 AGAAGGGCTC ACCCACTGTA GCAGGGCAGC TCTGCTGTGG TCTGAAGGAG
99401 GCTTAAACAC AGGGATGGGA AAGTGTAGGG GTGGCTGGAA TAGGCCTGCA
99451 TTTTGAAAAT CAAAATAGA TTTATTTCTC TTCATTGTT GTACTGCTGT
99501 GGTTACTCAG AAACCAAGCAA CTATGTCAGG TTCCCTGGTT ACAGAGTAA
99551 CCAATAGCAA GTCCCTTAAT GTGCTTCTAG AGGTATGCTT TCCTTCCTG
99601 AGAAAACAAGG AAGGATTACA AGATTAACAC TTACCTTATA TATGAGTAAG
99651 ATGATTAACA AGATCAGCAC TTACCTTATA TAAGAGTAAG ATGAAAGGCC
99701 CAACAAGACA GACTCTAAGG AGCATGTAAA ATATCAAGCC TTGCTTAAAC
99751 AGGATCTGGG CAAAATACAT CCTAGCAGTT TGCATTAAC AGATTATACT
99801 GTTAATGCTA TTTTAAAGAT ATTGCTTCTC CACTCATGTG GTTCAGGAC
99851 TTCCACAGAT ACTAAAATCC TCAGATGCTC AAGTCCCTC TACAAAGTGG
99901 TGTCGTTTT GCATATAACC TACACACGTT CTTCCATACA CTTAAATGA
99951 TCTCTGGATT ACTTAGTCAT GTGCTGCATA ATGATGTTTC AGTGACAAC
100001 AGACCGCATG TACACTGGAA GTCCCTGTACG ATTACACTGA ACTGAAAAAA
100051 TTCCCTGTCAC ATAGTGTGTT CATAGCTGTC ATCACATCAC AGCATAATCC
100101 TTATTCACTG GTTTGTGGCA ATGCTGGTGT AAACAAACCT ACTGAAAAT
100151 ATGCTGGGA GTACTTAGCT TATCCATAGT TGACCCCTCC AAAGGTAGCT
100201 CAGACCTTCA AGATAGAAAG CCAAGCATT GACACATGAG ACTGACCTC
100251 AAAGGAAAGG GCTATTTAG AATCCTGCA ATTTAAGATG ATTCACCCACCC
100301 ATCCCCCATGG CAGAATAATA GTTAATAACA GTTAGCTAAC ATTCACTGCA
100351 TGCTTGCTGA GTGCCAGGCA CCAATCCTAC CTGCAATTAA ATTTCATCA
100401 CTTTGAGGGG GTGGTGTAT TCTAATCCCC ATTTAACAGA TGAGGAAAGT
100451 GAGGTGCAAA GAGACTTAGT AACATAATTA GAGGGCCAC ACTCATGCAA
100501 CCAGGGACCA GTGTAGCTAA AAGAAAAATT CATTGCTGTT CCCTTTCATA
100551 ATACAATTAA GCACAATGAT GACATCCGGC AAAATACCCA ATGATGCATT
100601 TCTCAGAACAA GATCCCATCA TTAAGCAATC TGTGACTGTA ATACCTCACA
100651 CAGTGTGCTG TATAAATAGT TGTTATACTG TATTTTAAAA AAATTCTACT
100701 TTTTATGGTT ATGTTATTAA TTATTATTAT TTATTATTAT TATTTTTTA
100751 ATGCTTCAG CCAGGCGCAG TGGCTCATGC CTGTAACCCCC AGCACTTTAG

100801 GAGGCCGAGG AGGGCGGATC ATGAGGTCA GATATTGAGA CCATCCTGGC
100851 CAACATAGCG AAACCCCCATC TCTACTAAAA ATACAAAAAT TAGCCGGGA
100901 TGGTGTGGG CGCCTGTAAT CCCAGCTACT TGGGAGGCTG AGGCAGGAGA
100951 GTCTCTTGAA CCCAGGAGGT GGAGGTTGCA GTGAGGCTGAG ATCATGCCAC
101001 TGCACCTCCAG CCTGGCGACA GAGCGAGACT CAGTATCAA AAAAAAAAAA
101051 AAAAATGCTT TCAAGTCTCC GTTGTGAA TCTGTAGATG TGGAACCCGC
101101 AGATCCAGAG GGCGACTGT ACGTAGTTAC TTTCAAAAAA GAGCAGTAGA
101151 CTCTGAAAT GGCAGGAGTA GTTTCTGAGC TAGTCCAAA GCATCTTCT
101201 GATCCGCTCG CAGAAAGGAC CCAAGGGCT CAAACACTTT CAGCCTGCTT
101251 GGGGAGAGTTA TCAAGAGCTG GTACAGCATG CTGCATTGTT CTGTTCATTT
101301 TTATTTAAAAA AATTAAACTA AACTAATATT TATATTGCCT GCTTTTATT
101351 TTATTTTATT TATTTTATT TTTGAGACAG AGTCTCACTG TCACCCAGGC
101401 TGAAGGGCAG TGGCGTGTAC TCGGCTCACT GCAATCTCTG CCTCCTGGGT
101451 TCAAGCGATT CTCCCTGCCCT AGCCTCCAA GCAGCTGGGA TTACAGGCAT
101501 GTGCCACCAT GCCCAGCGAA TTTTGAGT TTTAGTAGAG ATGGGGTTTT
101551 GCCATGTTGG CCAGGCTGGT CTGGAACCTC TGACCTCAGG TAATCCACCT
101601 TGGCCTCCCA AAGTGGTAGG ATTACAGGCC TGAGCCACCG CGCCTGGCCT
101651 ATTGCGCTGCT TTTAAAGGC CCAGTCTAAT TTATTCAGG TGAATTCTT
101701 CAGAAATAACG TGCTGTTTGT TAATTCACTC AGCCAGCCAG TCATTCCCTC
101751 AACAAATAATT TATCCAACAA ATATTTATTG AATGACCTCA CTTTGCCAG
101801 GCACTGATCT GAGCACTGAG AGCCAAGATG GATGCTTAGA CAACTTTGTT
101851 TTCAACCTAA TTCTCACTTT TGTTTGTGCC CTGCCTTAAC CCTCAAATTC
101901 ATGAAATACT TTGCGTACA TCTGCTCTCA TAACAATGCT GGGCAAATTA
101951 TTCCCCCGTT ACAGAGGTGA GCAAATGGAG CTTAAGACTG TGTAGCGGTT
102001 ATATGAACCA TATGAATAAG TGGAAAACC CAGAATTTTT ATTGCTCTG
102051 CTTGCTCTGT CTACCCACTT GAGCTTCCA TCTTCTTCT GTTTCCCTCCC
102101 TGCTCATCAG ACCAAATCTG TCCCCTTCT CATTCTCTC GAGTGGAGCT
102151 GTTGACTTTT CAGAGTGACA AGTTGATAGA ATCAACTCAT CTGTGTGAAT
102201 GGTTGGGAAG CTAATAATGG CTTAATATTA TCCCTGCTGTG CATTGCTG
102251 TATCCTGGCA CAAGGTCTC AGCTTGCAA ACAAAATCCCC TGCCTTGGC
102301 TCCAACGGAT CCTGTGTTAG CTAGAGTTAG GGAAACACAT GGACTAAAAC
102351 TTCCTAACGA GGTAAAGAGCA TATTTCTGCC ATGTCACAAA TCCCTGGACA
102401 ATCAAATGAA TTGACAGTCG TTATTTTTT ACAAAACAAT TACCAGCATT
102451 TTCTGTAAGA GGTGGGTTTG GGTGACAGCT CTGATGATTT TCCATTCAAT
102501 GAAGACTTCC TGAAGGTGAA GGTCCTTCCC CAGCTCCAAA AGAGACTCCC
102551 ACCTTGCCAG CATTGGCAGG CAGCCTACTT GCCCACTGTC TGGGATTCTA
102601 TAGTTGCTT TCCCTAAATA AACCTACTTG AAGAATATAT TCAGAAGCAA
102651 GTAGGATGGG TATTTTTGAT GGGGATTGAG AAGAAGTGTG TTGATTGGA
102701 TTTTATCTTG CAACTGATTT GTTTCTGCCA GATGTTGATA TGTAACCTG
102751 ATGCTGTGAT TCCAGGCCCTC AGGAGCAGTA ACGTTATAAA CAACCTTCCG
102801 TTGCTTCATC TGCTAGTAGG AACCTTAATT TATCACGTAG GTGATAGAGT
102851 TGCAGTTCT CATCCACTTG TGAAAAAATT GGGCAGCTGT AGGGAATGCA
102901 TCCCTTCTTT TAAAGAATTC ATTCTAAGGA ATAAGACAGA GAATTTATTC
102951 CAAAATATCT TCATCCAGT GGAAATAAA ATCCCTGCTA ATGGCTCAGA
103001 ATATCTCTG GGCTTGATT AAGAAGGACT TGTAAGGATG GGCTTTCTT
103051 CTCTTACTGT TTGCTCTCTG GGCTAATCAG ACTTTAGGAA GAGAATCTTG
103101 TCTTCGGCAC CTACTGGGGC AGGCACCTC TGGGACACAG ACATCTGCC
103151 GTGAAACCTG CTGCTGCCAC AGATGCTT TGAGGGTGCT CATTATTC
103201 GTGACTTGCT GATGACTGGA GAATGGAGAA GGACAGGAAC CTCCTCTGTT
103251 CTTTAACCTC AGACACAATG CCTGTTCTGC TATGTTAAA AATAATACCT
103301 TTTTATGTTT TTTCTGGTT ATAAAAACAA AACTTGTCT TTTTAGAAAA
103351 AATTGAATAT ATAATAGAG AGAGAGAGGA AGGCAAAAT TACTTGTAAAT
103401 ACCACCAACCT AGAAATAGTC TTTGTTATTA TTCTGATTTA TATCCAGCCT
103451 ATTCTCTGTT AATGCATTTA TGTTGTTGT ACAAAATTGAA ATCTTCTGT
103501 ACAATCTATT CTATGACCTG AGGTTTTCA CTTAGCACTA TATTTTTCT
103551 TTATTGTTAC TAAAAAATA TATTCTGCAT CTCTGCATAA AGACAACATC
103601 TGAACGTGTA AAATACAACA ATGACCAGTC TCTTACAGGA GTCCCTGACCC
103651 TACTCGAGTT CATATTCACA GGGGGAGAGC AGGCATTAAA CAAATAATTG
103701 TACCAAGTAAT TATTGATTG CAATTGTGAT AAGAGCTATG AAGGAAAAGA
103751 ACAGAGGGCT GTGGGCACCT GACTAGTCTG GGGAAATCAA GAAGGCTTCC
103801 CTGAGGAAGT GGCATGAAGG CCAAGAGCTG GTAGCTGAGT AAAAGTTATC
103851 TAGAAAAAGA GAGCCAGGA TAGGAGTGGG AGGAAGACGA GAGCTCTGG
103901 AGCTGAGAAG AGCCAGCATG GGTTAGGGAG TGAGGGATA CATGGGACAA

103951 GGTAATGCAG TAGAGGTAGG CAGTGACTAG GTCGCTCAGA GTCCCAGTGA
 104001 AGAATGTTGA GTTGATCCTA AAAGCAGTGG TAAGCATCAA TAGGTTGTAA
 104051 TCAGGGTTGT GACTTGATGA GGTTTATAGC TTTAAAGGAT TATTCTGTG
 104101 TAAAAAAATGG GGATTATGGA GGCTGAGTTA GGAAACTACT ATAATAACCT
 104151 AGAAGAGCAA CACTTGTGGT TTGGAATAGT ACAATGGTAG GCATAGGAGA
 104201 AATAGATGGA TTCTACCTAT TTTTCCCTAT GTTGAGGAG CGTTTTGATC
 104251 AGATATGGT ACTTACTGGA TATGGAAAGT GAAAAAGGAG CTTCAGGGAT
 104301 ACTTCCTAGA TTCCCTGCCTT TTTCACCTGG ACAGAGGCAC TAAACACTAA
 104351 TACAGGGAGT TTCGGGGGGA GGACCAGGTC TTTTGGGGT AAATGATTGA
 104401 TACGGTTGG CTGTGTTCCC ACCCAAATCT CATCTTGAAT TGTAGTTCCC
 104451 ATAATCCCCA CGTGTGCTAG GAGGGACCG ATGGGAAGTA ATTGAATCAT
 104501 GGGGGCAGTT TCCCCCATGA TATTCTTGTG ATAGTAAGTT CTCACGAGAT
 104551 CCGATGGTT TATAAGGGGT TTCCCCCTT GCTCGGCTCT CAITCTTCTC
 104601 ATTCCCTCCA CCATTGTGAA GAAGGACATG TTTCTTCCC CTTCTGCCAT
 104651 GATCGTAAGT TACCTGAGGC CTCCCCAGCC CTGGGAAACT ATGAGTCAT
 104701 TAAACCTCTT TCCTTTATAA TTTATCCAGT CTCTGCCAGT TCTTCATAGC
 104751 AGTGTGAGAA TGAGACTAATA CAATGATGGA CTCTGGTTA GACGTGTTAA
 104801 GTTAGATGTG CCAATGGGAG AGGAGAGAGC ACATAGGCTG TTGGCTATGT
 104851 TGGGCTGGAA TGCATCACAG GGAACGGGGC TGAATATGGA GATTTGGGAG
 104901 TCATCAGCAT GTGGATGGCA AAAGAACCCA TAAGTGGCTA AAATTGTCG
 104951 GGGCAAGAAG GTAGAATCTG AAGAGAACAA GGTCTACAC AGGGCCTGGA
 105001 GAGCCAGAGC CACTGACCTC TTTCATGGGA AGGTGGATGC ATTTGAGGCT
 105051 GAGTCTCCTT GTCTCTTTA CACCAAGGCT GTCTGAATT CCTCAAGACA
 105101 ACTTCCTCCA TTTCATGGGA GATCCCCTG GTGTGCCGGA GCCAGTGCAC
 105151 ACTGGCTTAT GCGAGCTTAT TGTTAAATT GCAGGAATT TGTGAGCCGC
 105201 TTGTTTGATA CTGCCATGT TAGGAGCAAT CACACATGGA AATTGTCAAA
 105251 TTCTACTAAT CAAGGTTTTA AATTATTTT TCCCTCTTCC TGGACTGCTG
 105301 GTTGTAAAC ATTAACCAAGC ATATCTCCGT TTCTAACCAA CTCATCTTGC
 105351 CTTCTAGTGC AACCTTGTGG GTTCTTCCC TTGGAAATCTG GGAGTAAGCA
 105401 TGATCTGTGA TCATTTCTAT ATCTCTCTGG AAAGCTCTA ATTTTGTCTG
 105451 AAATTACCAAG CCCCTTCTGC TAATGAGCGA GTAAGCAAAT GACTTACAT
 105501 TGATACAGTG AACCTCCTCA GTCTCTGTAT AAGTTTCTA TTGCTGCTGT
 105551 AACACATTAC CACAAACATA GCAACTAAC ACAAAATTAT TGTCTTAAAG
 105601 TTTCTGTAGA TTAGGAGTCC TCATGAGGGC TTAATGAGGT TCTCTGCTTA
 105651 GGGACTTACA AAGTTAAAAT CAATCGAAAG AATTCACTGC TGTGTGAGAG
 105701 TAGAACTGAG ATCCTTGCTG TATTAGGCTA CTCTCACAGT GCTATAAGA
 105751 AATACCTGAG ACTGAGTAAT TTATAAAGAA AAGAGGTTA ATTGGCTCAT
 105801 GGTTCTGCAG GCTCTACAGG AAGCATAGT GCTCTGCTT CTGAGGGAGAA
 105851 GGAAACTTGC AGTCATGGCA GAAGGCATAG GAAAAGCAGG CACGTCTCAC
 105901 ATGGCCAGAG TGGGAGGAAG AGAGGGAGGG AGAAGGTGCT ACACGCTTTT
 105951 AAAACAACGT GACCTCATGA TAACTCACTC ATTTCACATG AACAGCACTG
 106001 GGGAGTTGGT GCTAACCCAT TCATGAGAAC TCTGCCCTCA TGATCCAATT
 106051 GCCTCCACC AGGGCCACC TCCAACACTG GGGATTGCAA TTCCACAGGA
 106101 GATTCCTGTGG GGACCGAGAT CCAAACCCATA TCACCTGCTT TCTTGCCGA
 106151 CTATTAGCTA GGGGATGCTC TCTGCTCCATA AAAGTCACCT GCATTCTTCC
 106201 CTTCCCGTGT GGCTCTCCAT CTTCAAATG GCAGTGGCAT GTTAGATCCT
 106251 TGTCAGGATT TGATTCCCTT TGACTTCTCC TCTGCCACCA GCCAGACAAA
 106301 GCTCTCTGCT TGAAGGGCTT GTGTCATTCT ATCAGTCCTA CCTGGATAAC
 106351 CTTTCTGTCT TTGCACTACC CGTGCCTGTG TTAGTCTCCT AGGGCTGCTG
 106401 TAACAAAGTA CCACAAAATG GGTGGCTTAA AGCATTGGGA ATGACTTATT
 106451 CTCTCACAGT TCTGGAGGCT AGTGGTCTAA AATCAAAGTG TCCTCAGGGC
 106501 TGTGCTCCCT CCAAAGCCCT TCTTAAAGGA AAGGAGGCCT TCCTGCCCT
 106551 TCCAGCTTCT GGAAGCCCCA GGTGTCCCTT GCCTTATGGC AGCATCATTG
 106601 CCATCTCTGC CTCTGTCTTC ACATGGTCTC TTCCCTGTGT GTCTGCCGTT
 106651 TCCCTCTCTGT GGTGTCTGTG TCCAAACTTA TCACTCTTA TAAGGACAGT
 106701 AATCATGTTG GATTAGGGCC CACACCAATG GCCTCATCTT TACTTGATTA
 106751 TATCTGAAA GACCTTATTT CCAAATAAG TCCTATTCA AGGCAGTGG
 106801 AGTTAGGACT TCAACATACC TTTTGAGG ACCCAATTCA ACCCATAACA
 106851 GTGCCATGTA AAAAAATAGA ACATAATCAC ATGAATGGTA CTCATCATCA
 106901 TTCATTGGTC CCAGGGGTTA CGGCATGGAA TATTGGGTGG TGAGGAGGCA
 106951 TTTTTAGAAT TCTGCCTTAC ATAGTCTTCA AAGGTGCCCT TAAATAATT
 107001 GTCTCATCTG CTGACTTACC TAAAAATAGA TCCCATGTCA TCCATGGTGC
 107051 CTCCCTGAAT GACCTCAGTT TATACCTGTT CCTCCTTCCT CCAGTTTGA

107101 GTATTGTCTG CCTAACAAAC AGGACTTCT CATGGACTGC ACTGTTCTCC
 107151 TTCCAGAGGG ACAGACTCCT AGAAACTCAG TGCCTGAGCT GATTACGATA
 107201 TTTGGTACAA GACACAGTGA AAATGAAGAA CTCTTCCATC CTTCAACAT
 107251 GACCAATTTC GTGCTCCAAT CCCCAGCAAA GGAAAGTTG CTTTGCTTT
 107301 TTATTTTTT TTTCTTAAA ATTGTAAGGC ATATAACAAA TTGCTCTGCA
 107351 TTTTCTCTCA CATGGTTTG GTTGGAAAGAT GTCTCCTTT CCCCAGCCGT
 107401 CTGCTGTACC TCACCTCTTA GCACACTCAG GCTCAGGCTG GAGTCATCTC
 107451 TATGGCCACC TTGTGATCTG CCCTCTCTT TCATCTCCC CAGAAGCACA
 107501 TTTCCACCA TGAGTGTAG CCATGTTCA TCTGCAACTG GCTAAAATTG
 107551 CACGGCACTT AGAGTCTCCC TTTTATCTCC CCTTCCTCCA GATGTCAAGC
 107601 AAATTCAAAA GTTAAAGCAG ATGACTTTT TTTTTTCAT GAAGCAAACA
 107651 GGAGTCTTGT CAGTTCTGT GCTTTACAAG AGTGGTAAA ACTGAATGGC
 107701 TTCCCACTGT GTGTCAGTT TGTTCTCTC TGGGCAATT CTTTGGAGA
 107751 ATTTAATTGT GCTAAATTAT TATATGATCA TCTACTCTAT CCAGAAAGGT
 107801 TAGAGGTAGA ATTAGTCATA GGAAATCTT TTTGAAATA GTTGGCTA
 107851 TTTTATCAGC TTTTACATTC TCAAAGGTTA ATATGTTAAT CAGTTTAATT
 107901 TTTTTGACA TGACTTATT GTAAAATAGC CTGAGAGTGC AAGCTTGGAA
 107951 AATTAACACC TTCATTATT TGTTGGTATG TGTGGTATT TTTGTACCC
 108001 CAAGATGACA TGACACCCCT AGAGTCAGGA GGCTGGTCT TATTGTTGCC
 108051 GAGGTAAGT TCCAGGCATA TCTGGTCTAA CAGGACCCAT GGAAACCAAA
 108101 GCTTTGTGTT GTGGGGCATT CTGTGAAGAA AGGATGATGA GGCCTTCCT
 108151 CTGAGGAAGG AATTGAACCG ATACCTTAGA TCTCATTACC TTTGTTCAA
 108201 AGGCAGAGTC AGGCAGGGTG ACAGGCCAA GTTCAGAGTT CAGTAAGCAT
 108251 GAGCTCCAGT CTCATGCTA AGGGTCGTTG GCATACAAAA CCAGGGACAA
 108301 ATCAGCTAAC TACTTTCTT GTCTGCAAA TGAAAGCTCA GTTTCTCTC
 108351 CAGGGACACT CAAGGATCAG ATGAGTTCAC AGAAATGAAA GTGTAAAGAC
 108401 TTCAGGGAAG AGGAGGATGG TGAGCCAGG CCAGGCAATA AAAAGACTCA
 108451 ACGTAAGCCT TCAACTTGAA ATGGGGCCA GGACATGCTC TTGAAACTCC
 108501 TGCTCTACTC CTGTAGCAG GCAAATATTG ATTCAATGCT CTAAGTGT
 108551 ATGAAGCGCC CTATACATCC CCAGCCTTT CCTGGCCCAT GAGAGGTGAT
 108601 AAAAAGGAAA TATGCCGCAT GGTTGCAGC CCGTCTGGTC TAGTGGTAAA
 108651 GATGAGAGTG CTCAGAGCGG GCCATTAAAT ACATATTGGT TGATCGAATA
 108701 AATGAATGTC AAGCAAAATA TGACATGGCA GGATTTAGGC TCTACCTTC
 108751 CAGGATCTCA TAATAAAGCT AAAATGTGTA CTGTCGGAGG TAGAGATGGG
 108801 TAGAGATCAT TGCTGCCTCA AGGACTTCAA AGGGATGAGA GAGAGGCTTG
 108851 GGTGGCATGG CCTTGGCAGC ATGTCAGAGG CCCAAATCC CCAGCACAGG
 108901 ATTAATCAGT TGAGCCTGTG CTCAGTCACA GAAGGAATTG AAAATCATGT
 108951 AAGAGTGTGC TTCACTGAAG CAAATATGAG TTGTCACTGT TATGAACAGC
 109001 ACATTCAGC TGAACGTCAA CCTAGGAGGT TGATTCTGG GTTTGGATT
 109051 GGGGAAGCAG TTGGTAATT CAATTGTC AAGCTGATAC TAGACGCGCC
 109101 ACCCTCAGAG CCCGGATCAC AGATTCTAG ATGTCGTACT TTTGCTTAGA
 109151 TCCACACTCA CACACTCTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGT
 109201 GTGTGTGTGT GTGTGTATT CCCTTGTT ACTTACTAGG GGAATCCTAC
 109251 CACATCTCCC AGGCACITCC AGGACCCAGT GATGTGTGTA GCCATGAGAG
 109301 GGCTCTGTTA AAATGGTCAG ATCCCTCCAG AGATTTGAGC TAAACCCAGCC
 109351 ATCCCAGGAC ATTAGACAGG GATGGCGTGA AACGATCTCC
 109401 TGTGTGTAGT TTTTGAAACA TGGTCATGAG AAGAATTGTT ATTCACTCAG
 109451 TCTGCAACTG TGTGGTCGAAT CGGGCATAT ATGACTTGGG TTCAATTCTGA
 109501 TTGGTCACTG CTCACTGCTAT ATCCGGTGTG ACATATTAG AAAATTACCT
 109551 GCGAGTGCAA TGTGTGTGTG TGTGTGTGT TGTGTGTAAAT TTGTTGCTGA
 109601 TGAAAACATG GTGGCCTTTG GGATTCCAGG CATTGATTCC CAAGAGCCTC
 109651 CCTGAGGACA AGGGTCTGTG TCTGTTCTA CTCCCATCTC TAGTTCTGCT
 109701 AAAACAGACC TCACAGAAGA CAGGCCAG CAGGTGCTCA ATAAAAAGTG
 109751 AGTGAGTTGG TGTGGATTGA ATATGTTAGG AGGGGAGAAT ATGGTCACTT
 109801 ATGAGAACTG AAAAGTACTC TGGAAAGTTG GAAAGGGCTT AAAAGGCATG
 109851 ATCCTTTTTT TTTTTTTGGA GACTGAGTCT CACTCTGTCA CCTAGGCTGG
 109901 AGTGTGGTGG TGCAATCCTG GCTCACTGCA ACCTCCACCT CCCAGGTTCA
 109951 GGTGATTCTC CGGCCTCAGC CTCCCGAATA GCTGAGATTG CAGGTGTGTG
 110001 CCACCATGCC CAGTTAATT TGTATATTGA GTAGAGACTG GTTTGCTACCA
 110051 TGTTAGCCAG GCTGATCTCG AACTCCCAGC CTCTCGTGTAT CTGCTGGCT
 110101 CAGCCTCCCA AAGTGCTGGG ATTACAGGTG TGAGACATCA TGCCTGGCTG
 110151 ATCTATTATT TTTAAAGGA TAACTTTAAA TGTATAGACG TATCAATAAT
 110201 GTATAGATGT ATAGAGTCTG TAATAATAAT CCTGGCTTCT ATCCACCTCT

FIGURE 3, page 35 of 188

110251 GTGTTGCAAT TCTTAGTAAG CAAGACCAGT AATAATGAGT CTTGGGGAGA
 110301 GGAAACTTTC TCAAACATTA TTTCACTGAA GACAGAGATG AGAGAATGTG
 110351 GGATTAGCCC CAACAGCAGC TCTGGAAGCT CTAAGGAGAA GAGCTTGGAG
 110401 AGGCAGTCAC CGTGCGGTGA GGCACCTGAG GATTATCTG GAAGTCTCAT
 110451 TTGCACAGTA CACCCACTGC TCCAACCTCC AGTATGTATT TATTGGGGGG
 110501 GTGCTAAAGA ATATTATGGG ATAGCAGAGG CTTCCCTCTC TCCAGCTGCC
 110551 CCTCAGTGC ACCAGTGTGT AGGCTGGTG CCATGCATGG AGACAGACCC
 110601 CGCAAGTCAC AGACAAGCCC AGTGCACAGA GCTGGGCCTT CAGAAACCC
 110651 TCTGACCACT TAGTATGCGT TCAGCAGAAG CACCTCTAG ATAAAATCTT
 110701 TCATGCGAAT TTCCCTTCTG TAAACCTTCA CCTAAATCTG GTCTTCTTG
 110751 AGAGCATCTC CTACTTAGAA AACATTTTC TTTTAGTTG TATAACCGTG
 110801 TTCTATTATG CTTGCCATT AAAGAGCAAG GGGGAAAATG TAGGCAGGGC
 110851 TTCTCTGGAA GCAGCAAGTT CATGCATCTG GGTCTGAATC ATATTCTAAG
 110901 TTTATCAGAG ATGGATGTCT ATGCATCATA GACTCCAATC CCCCAGTGCC
 110951 AGGTCAGAGG GTTTCAGCCC CAGTACCCCT GTCTGCCTGC GTGACCCCCA
 111001 CAGATTCAAGG ATCTGATGTC CCAGAAAGAG GCCTGATGAG TGAGGATAAG
 111051 GAACAAGCCT CAGGAGCTGC CTGAGCTTGG GCTGAAGGGG ATGCAGAGGC
 111101 TTCTCCTGCC CCTCAGGCAA ACAACAGCAA AAATACTCTC AGCAGCTATG
 111151 GCTACCACTT ACTGAGCATG CACTATGTGT TCAGCAGTGC TCTATGTATA
 111201 TTATTCTGAT TTCCCCAACCC CCTCTATGAG ATAGGCTTTA TTATCCATCT
 111251 TCTTCCATCG GGAGAGGAAA CTCAAGGAAG GTGACCATCT CAAGGTCACA
 111301 CAGCCACCTG AGTGACAGAA CCAGGATTGG AACTCAGATG TGCCTGAGCC
 111351 TAGAGCTCACAG TGACCTGCTC CCTCCAGGG AGGCTCCTTC TTCATGTGGA
 111401 AGTGGGGGTC TCAGCTAATG CTGTGGTAGA CCCATTGCTT CAGAGCTGGG
 111451 CACCGTGGGC AGTGCAGTG AGGATGGGC CAGGGGAAGA GATTTCTGGT
 111501 TTCTTGTCA GTATAAGTAT GTTTATAGCA CGGCACCCAT GAAGGAACAG
 111551 CAGACCCCTGG GCTGAGGTGG GCAGAGGCTC TTGGGGAGCC CAGGTACCCC
 111601 TAGGGGACAA GTGAGGGAAAG AGGATTGGGG TAGGGCTGGC TAAGACCAGA
 111651 AGATGGCGG GAGGCAGTAA GGGGGAGTCA GGGCTTGGG CAGTCCAAC
 111701 GGACGTACAG GGGGGACAAG AGCAAGACTA GCTGCTGAGT GGGAGAGGGC
 111751 GGGACAGTGG CTTACGATGG CTTGGTGGGG AAAGACTGGC AGTGCAGCCT
 111801 GGTTGCAAGT GGTTGAGCG TCCCTTAGAA CCTCCCTCCT GGGACAGCCC
 111851 CAGTCTCAGA ATGGGGCAAAG GGCAGGGAA GAGCAGGCC GGATCACCTC
 111901 CCTCACTGTC CTCGTGTCCG CATTTCCTAT GGAGCCTCCC ATGACATTCA
 111951 TCATGGGGCA TCTCGAGGG TATTGTGGCC AGAGATAACCA CGTCAGGGAA
 112001 TGCAGGAGCC TCCTCTCCTG GTCTGGGTT GATTCAAAGC CTCATGCCAT
 112051 GAATGCAGAT CTTGCTCCTAC AACACAGGTC CCAGGGCTCC CTGATTCCCT
 112101 TGGTGGGGAGG GCCATGTGGC CAGGTTTAGT GGAGAGGCTA AGTCAACTGT
 112151 GGTTTTTTTG TCTTAAATCT TAGATGTCTG CACACCTGCC CTCTGAAGGG
 112201 GGTTAGCATG AGAGAGAGAG AGCTGAGTGT CAGACACAGG AATTGGCAG
 112251 TTCTCTCTCT CTCAGGTTAA CATCTGGAA AGCACCCCTGC ATTTCATCT
 112301 ACAAGATTGC TTTCTTTGTG TGTTTGACTG TTTCCATACC TACAGAGCAT
 112351 TTGCTACATC TCCCTGCTT ATTTCACAGA GTTGCATACA TTCTACTTAA
 112401 AGGAATTGGG TGTAGTGGG CTTGGATGTC AGAGCACATG CTGTGGAGTG
 112451 TAGTGGCATA GTCAGAAAGT AACGATCGGA GGATGGAATC TCAGGTTATG
 112501 TGCTGCAGGT GGCATTGGTC CTCTGCTCC CAGCGTCAGA GCTGCAGCAC
 112551 AACACATCTG CCCTCCTCTG CCTCTGAACA CCTCTCAAACC CAGCAGGAGC
 112601 CCCAAAGACC CCTAAGCTAC CCATGCTGAG CCCACTGTCC CTGCCTTAT
 112651 GCTCTTACTT ACTTCAGTGG AGGAACCCCCA CTTGATGTC TCACAGCCTA
 112701 GTGTCTCTG CTTAAACAT AATTCTAACCC ACCTTGATCA TCTGATTTC
 112751 TGGCCTATGG ACATTTAGAT GCAGGAAAGG AGCTCTCAGA GACAGATTT
 112801 GGTACAGTG CAGGGGACAG GTGGCCACCC AAATGCAAAT TGCACAAAGTG
 112851 GACAGAAGGC CACTAGTTA CACAAGGTG CCTCAAACCT CCCTCTAATT
 112901 TCTCGTTAGG CCCCCGGAGTG GTCCCCGGAG CAGAGCATGG GCTCATCATT
 112951 GCTGTTCACT GTGATGATCC TAACTTCCCC ATCAAGCTCC AGAGACTTTT
 113001 CAGTTCTCTC TTTGTAGAAG GTGTGGAAGT GTGTTATACC CCAGAGCAGG
 113051 AACTCCATCC AAAATATTAA CACTTAGAAT AAAACATATT TTGTCTATGTA
 113101 AAGGCCTTAA GCTCAGTTAT TTGGATTATC GCTCATCCCC TTAGAGATGT
 113151 CCGCAAATGA ACCAATTAA GAGAATGATT TGTGGCAGTT ACTTCTTCCA
 113201 CTGTTAGAAC AGCTGCCTCC TGGGTGTGCC TGCCACATCG TGGGATCCTT
 113251 GCTCCTTCT CCAGCAATCA CAGTGGAGTGG CCTGGAGATG AGTTGCAGAG
 113301 TTTCTCTGAG CTCAGAGTTA CCCACTTATC CACCCAGCCC TTCCCCGCAG
 113351 AGGCCTGGTC GAGTTTGGC CTTGCTCATT AATAGCACGA TTCTCCCAC

113401 TCTCATACTG GCTACAATCC CTCATTCCA ACCGGTGTGT AAGTGGGCTA
 113451 GCATGTGTGT GGATCCTTCT CACAAATGTT TCTGGCTGCT CGTTTCCCCG
 113501 GATGGATTCC TGTCAAGGATG CTATGGGACA AGACATGAGA CATCCCACCC
 113551 GCTTTGTTGA TTCAACATGG ATATGTTGC TTTTCTGCCT CAGAATGGAG
 113601 ACAGTTGTTT ACAGCCTCAC CAGTCAAAAT ATTTACTAAA CGTAACCTAC
 113651 AGTTCAGGA TTGAGAGGA GGAAAACACA CAGTTCACTT TCCATGTTGA
 113701 TAAAAACATT TGCATAAGAT GCCTTAAAT GCAAGCCGGT GCCCCTCTGT
 113751 GTGCCAGAGG GATGTGCTCA AGGTGAGAGT CTCAGGAGCG GGGTTTCCTC
 113801 AGCACACCCG GGCCACAGGC CCTCTTCTGT TAAATGTCAT ATTGAAATAA
 113851 ATGTGCACAT AAACCAGGTC ATACTCTCA AAGGGATATC AGGATTTCAC
 113901 ATTTTCTCAC ATACAGTTA GCCCCATCGA ATTCAAGACTA AGTTGATCAA
 113951 AACCTATGAT AGGAATCCCA GAAGGTCAAA AGATGCCAGT GTTGAACATT
 114001 TTATCTCAA AAATTACTGC CTCTCAGTGT ATTCTGTGGT GCCAGGATAT
 114051 CCAAAAATGC CTGAAAATGT GCTTTCAGCG CAGGACTCCG TTTGTGTTAA
 114101 TGTCTGCTGG GGACATTAGT ACAAACACCA GTGATTCACT GAGCTCACTC
 114151 CTGTGTGATG CTAGACTTGG AAAGCTTTA AGGAAATTAA ATTACACATT
 114201 CATACAAAC AGTGTGTAA AAAAAGGGGG AAAAGATATC ACAAGTATCA
 114251 TCTTAGGCAG GATAACATAG TGTTAAGGCC CCAGTGGCAG GTAAAAGTTG
 114301 CAAAACCATC ACACATGAAG TCCTCTATCA TCCCAGATTC CAGGGGAAGT
 114351 GGAAATCTCT TCCTTTCTT TTTTCTTCT GCTGTGGTT ACATGTTATT
 114401 AAGCACCGAG TAGGTGTGTT TAACCTCTC GTTCCCTCAGT ATCCATAACT
 114451 GTAAAATGGA TAATAATACC TACCTCACAG GGCTGTCATA GGAACCAGAT
 114501 ATCTTAGTAT GGCTAAAGTG CTTAAAACAG TTTCTGGCAC ATAGTAAATA
 114551 TGCTATTGTT TTTACACATG CTGAAGCTCT GTAAATTCACT ATTGGGATT
 114601 CTTTCTCATA ACCTTGTGTA GTCTGAAGCA GTGATTGGCT GGGGGCTGGT
 114651 TTCTGTCATA GAAGAAAATA AATATTGAAG AAAGGGGCTA GAAGGTTCAA
 114701 TATCCGGCAG AAGGACGATC TGAGTTGACC CTGGACCCCT CCATTCTCCT
 114751 CAATCCAAAC ATATAGAAAA TAAAATATTA CTGGGGAAA TGTTTATTTT
 114801 TCTAAATATA TGACTGGACT TGAAGGTTAG AGAAATTCT AGGTACAAAA
 114851 ATGAACAAAC CACTCTCAA GGCAGTGACG AGTGAGCAAG CCAATGTCAT
 114901 GGCACCCCTGA GTTTGAGGG GGCAGCGTCA GACCCAGCAC GGGCCACCTC
 114951 AGGGCTAGTG GCAAAGGCTT TTATCTCCAT CCCAGGACAG CAAGTGTACT
 115001 TTGGGCCCTGC ACAATACAGA AAGGATTCTA CTTAAGGCTG AGACCTGGG
 115051 GGACTGCCCT CTCTGTGAAA ATGGGGACTA AGAAAATTTC ACCTAATGGT
 115101 CAAGGAATGT GGCAAGTAGC TTGTGGTCTG CCTAGACTTT GAACCACATT
 115151 GAATTACAC TACTTACACG TTACAGAAAT TCTAACCTA GAAATAAAACT
 115201 TAAAGATAGG TCCCAGATCA GTAAAACCAC TAGAGCTCCT AGAGAAATAC
 115251 ATGCAAACCC ATTATAAAGG ACAATCTCCA CACCAGATA TACAGGATGC
 115301 CGATGGGGAA AAGAAAATCT CAACCTACAA CATAAAATTG CAGATCATAA
 115351 GGAACATT TGCATCGGG AAGAGTTAAC CCCAGACTCA CACACTGGGG
 115401 TTAGCTCCTT CAGAATCTTC ACGTAATAAA ACACAATGTA AAAGTAAC
 115451 TTTAAAATC TATGTTGAA ATTATTAGAA TAATAAAAAG AAGAGAATT
 115501 TAAAGAAGGA ATTGTAGGGG AAAACAAAGC AAATTGGAA AAGTGAATT
 115551 TCTAGAAATT AACATTATT AAATTAAATA TACAATAAT GATTTAAAAA
 115601 CATATTAGGT ACAGCTGAAG AGAGAATTGT TGAACAGGAA GATAGCTCTG
 115651 AAATTACTCA GGAAAGAGCT CAGAGAGACA CAAAGATAGA AAATATAAAA
 115701 CAGATATTAA GAGAAAATAT TAAGATATG AAATATTAAAG AAATATTGTT
 115751 AAAAGATATT ATTAAGAGTT TTGAAGAAC AGTAGGGTAG TCTATAAGAA
 115801 AAGCGTAGAG GAAGTGGAGG AGAAGAAACA CTGGAAATGA TAATAGCTAG
 115851 ACCTTTCCA AAATTTTTT AAAGATATAA ATGCCTAGAT AAAAGCAGCA
 115901 CTCCAAATCA TGAAACAGTAT AAATACAAT TATGTTACAA TGATCTGCAG
 115951 AATACCAAAG ATAAAAAGTG ACCAAAGAAG AAAAAGAT TCTCTGCAA
 116001 GGAACAATT CTAATTGCAA ACTTCATTAG CAACAATGGA AGCCAGAAGG
 116051 CAATTGAATA ATATCTCTA AACAAATGAGG TAAAATAGTC AACTTACAAT
 116101 TCTGTTGAG AGTGAAGGGC AAAGATACTC TCTGATAAG ATTAAAGAGG
 116151 TTACTGAAGA GTTACATAA ACTCTTACTG AAAGAACTAA AGGTATATAT
 116201 ACTTTAGGAG GAAGGCAATT GACCCAGAA GAAAATAATG TAATACAATA
 116251 ATTGCTAGTG AGAAAGGGAA TAGGCAAAA CATAGGCATA ATTATAAGTA
 116301 AGTGTGACT GAAGAAAAGC ATTGATAATA AAATGACTAA TTGGGGGTCA
 116351 TTTAAAATAT GAAACAAGAG ATGGTGATGA TGGTCAGTAC TAAAGAATT
 116401 TATGCTCTT GTGTTATTTG AGAAGATACT AGGCCTTAAA AAACCTTTAGG
 116451 CGTTAAGTCA GAATGTATAT TGAAAATTAA AGGGTAACCT GTAAAAGAAA
 116501 AGAAATAGAA TATAACCTCT AACAGAAGAG TCTGGAAAAA AAGAGTTGGA

116551 TAAATAACAT TCAGACAGCT CAGTAGATTG CAGTCAGTA GACAGCAGAG
116601 AAGTAGACAA AATGAAGCAA AGTAAAGGCCA TCATAAGTGG TAATAATATA
116651 TAGCAATAAA AATAATATTA AATAAAACT CAAATTAAGT TGGCAAAAC
116701 TGAATATATC AGTAATATGT TTTAGTGGAT TGGATTATC TGTTAGTCAA
116751 TAGCAATTTC CAGATTGAAT TTTTAAAATA CACGGATGTG CTATTTACAA
116801 AGATCATGTC TAAATATAAT GGCACAAAAT TTGAAATGAA ATTAATTGAA
116851 AATATATGCT AACAAATACT AAAAGAAAA ATTAGGCCAG GCGCAGTGGC
116901 TCATGCCCTGT AATCCCAGCA CTTTGGGAGG CCGAGGTGGG TGGATCACGA
116951 GGTCAAGGAGA TTGAGACCCT CCTGGTTAAC ATGGTGAAC CCTGTCTCTA
117001 CTAAAAAAAT ACAAAAAAAAT TAGCCAGGCG TGGTGGCGGG CGCCTGTAGT
117051 CCCAGCTACT CTGGAGGCTG AAGCAGGAGA ATGGCATGAA CCTGGGAGGT
117101 GGAGCTGCA GTGAGCCGAG ATAGTTCCAC TGCACCTCCAG CCTGGGCAGC
117151 AGAGTGAGAC TCCGTCTCAA AAAAAAAA AAAAGAAAA ATTGTTTGTAA
117201 GTAACATTAA TATCAAAGTA TTGTTAAGG CACAAAGCA TTATTGGGTT
117251 TACTGCACAG TGACAAAAGA AACAAATTCAAC TGGGACACAA TAATAATCAT
117301 AAACCTTATAT GCACCTAACAC CAGCTCTAA ACAGACATAA TGCAAAAGCCT
117351 AGGAACCTTAT ACAAAACAT CGACAAATT ACAACTTACA ATAATGGGAT
117401 ATTGTGACAC ATATTTTTAT AAAATGATGT CAAGCAAACA AAAATTTATT
117451 AAAAACAAATT TTTTTTTCTT TCCAATTTTT ATTTCAGGTT CAGAGGTACA
117501 TGTGCAGGTT TGTATGTGG GTAAACTGCA TGTTGCAGGG TTTTGGTGTAA
117551 CAGATAATTG TGTCAACCCAG GTAAACAGCA TAGTAAAGAT AGTTGGTTT
117601 CAGTCCTTAC ACTCCTTTCA TCTGAACCTCC ACCCTCAAGT AGGCTCTGGT
117651 GTCTATTGTT CTTTCTTTG TGTCGTGTA TACTCAATAA AACTGGATA
117701 TTTGAAAATG ATGACTAATA AGATTAATCC ATTCAATTATA TGAAAACCTC
117751 CACACCTAAT ACACATTCTT TGCAATGCACA ATACAAAAT TAGCCACATT
117801 CTTGGCCACA AAACAAGTTT TAACAAATAC CAACTAATTG ATAGGCCATA
117851 TTCCTTAAC AATTGCACC AAAATCATAA ATTAATAAA AGCCCACTAC
117901 AAACCCATAC ACTTGGAAAC TTAAAAACAT ATTTGAAAT AACTCAAGGA
117951 TCAGAGAATA GGTCTTAACCT GAAATCGCTG AAAGTTAGA AGCAAGCAAT
118001 AATGAATTCA CTACATATTTC AAGTATATAG GATGCTGCTA AAGCAAACT
118051 TGGAGGAAAA GTTATAGCCT TCAGTATAAT TTAGAAAAT TAGGCCAGT
118101 AGTTCATCTC AAACTTAAA AATAATAAAAG AAAAGAGCGT GCCTTAATAG
118151 AAAATAAAGA AGCAATAGTG AGGATCAAGA AAATCAAAAT CTGGCCCCCT
118201 GGAAAAAAA AAAAAACTTT TAAAATTGTC AAAACTCTGAC AAGACTGGCA
118251 GTAAACGCTT ATGTGCCAGA GACTGTTCTA TGTGAATTAT GTTTAATT
118301 ACTCAAAGGT CAAAATGACC TAAGAAGTAG ATCAGTTGT TATTAATT
118351 ACCACACAGC TACTAGTACT CTGTGACACC TGAACAAAAC ACTTCTATTG
118401 TAGGACATTC CGGCATTTTT CATGGCACCC TGCAGATTAA AAAAAAAA
118451 AACAAATGAGG CAAAGATGGG AGACTTATGA GGAAAATACA TGAAACCAG
118501 AGCAGGTAAA ATTAAGTTA TAAAGGCAAG AACTGATTG GACAAAGAGG
118551 AGAATGTCT GTACTGAGAA CCTGGAATGA GATGTTCCCT GGCAAGTCAG
118601 GTTAGCATAG AAACAGGTAT TTCCTGGCAA AAGGAACGAG TTGTAGGAGA
118651 TGATGTCACT GGTGCACTT GTAGGAGATG ATGTCACTGG TTTCAGGCTG
118701 GAGGCTGGCT TTCAAGGGCTA GAGGTAAAGCC TTTGATCTCA CTAATGTTCA
118751 TGGGCATCTG TTCAAATGTC AGTGATAAGT GTCTCCTTGT CTTTGTCA
118801 CACCTAGGGAA GGGCATCAGG GCCCTACAGG TAGAGCCAAG GAGCTCTCTT
118851 GGTCAACATG GAGTGGAGAA GCTGGGGCTA TTTTGGGGGT GACATACTAT
118901 GTATCCATTG CTCAGACAGC TCAGTGTGCT GTCTATGTGC TAAAAGGGAA
118951 CTTTCCTCCA CCAGAACTGG CATTGGTCCC TGAGCCTGGC TCTTGCATG
119001 TCTTCTTAAG AATATTGAA GAGTCTTAGC CCCAAGTTCT CCTGAATGTT
119051 ACAGGGCATA TCTGCTAGCA GAACCTTCTA GATAGTACCT CAAAGGCATT
119101 CTAGCATTTC TCACTTGAAA AATGGAAGCC CCTGGGATAG ACATGTGACA
119151 GAAAAAAAAG AAAAGAGAAA TGGAGGCCCT CTGTGCTACT TTAGGTGGTG
119201 GCAATGGAAG TCACTTGCAT ATACTGCCAC ATGTGTAGGA TTATTACATT
119251 ATTTAGCTGA CTGAGTTCTT CCTCGCCTCT CATGACACTT GGGCCCATCC
119301 CAACACTCAG TGCAATGAAC ATCTCTGAAC AGGAACCAGG TTTCAGGCTG
119351 GGACTAGGCC AGGCAGATGC CCCACAGAAG GTTAGCCGAG AAACGGGTT
119401 TCCAGAGGGT CTGCCCTATC ACTTCAGAGG TCCAGAGTTT GGTATTTATC
119451 TTAAGAATTG TGGATGCTTC TGGGCCTGAT TAGTAGTGGC ACCCCGTGCC
119501 AGGATAGGAC CCAGAGGAAG GAGGAGTCAA CCATCTAATA GCATTGATTG
119551 TGCTCATTTA ACCCCTGCTA CCTGGCCCT CTCAGTACCC CTACCCCTCTG
119601 TCCAATGGGG GGTTGACAAG ATGGCCTTTT GGATAGGTCC TACAGCAGGA
119651 GCTTTGGAGT TTTCAGGCTC TGTGAATCTC TCACGGGCAG TCTCCAGATG

119701 CCAGAGAGTA GGATTAGTTA TCTAGAGGCA GTGGGAGGGG TGAGGGGCAT
 119751 CATGGGCCCATGAGATTGG GGTGAGGGTG GCCCTCTGAA GCACTCATGG
 119801 CTCATTGCA GCCAACACCC CCATAACCCAC TCCCACATCCA CAGAAGCTCT
 119851 TACTACTATG TTTCATTTT CCTCAAGAAT AAAAATTGAC AATGGTTTGG
 119901 GAATTACTT CCAAATCTAC ATTTTTAATA GCATATTCT CATCTAGAGA
 119951 TAAACATGAT TTCTACCCCA CACATGAAAG GACATGTCCC GTCATCAATC
 120001 TGTGTAGATT TCTTACCCATA AAAAGAGAGC TTGGCTGGGT GCAGTGGCTC
 120051 ACGCCCTGAA TCTCAGCACT TTGGGAGGCC GCGGTGGCA GATCACTTGA
 120101 GGTCAGGAGT TAGAAACCAG CCTGGCAAC ATGGCGAAAC CACATCTCTA
 120151 CCAAAATATA AAAATTAGCT GGATGTGGTG GTGGTACCC GTAATTCCAG
 120201 CTACTCAGGA GGCTGAGACA TGAGAATCGC TTGAACCCAG CAGGCAGAGG
 120251 TTGCAGTGTAG CAGAGATTGT GCCACTGCAC TCCAGCCTGG GCAACAGGGT
 120301 GAGACTCCAT CTCAAAAAAA GAGAGCTCGT CGCAAAGATT ATCTTAGCTA
 120351 TCTTGGCTTT TCTTTTTAA AATAATCCTA AACAAATGCAG GATAATTATA
 120401 TCAGCAAAA TCAAATTAT AAAATGCCAG TTAAAAAACCA TATGTGTATA
 120451 TGGTAGCAGA TATTCAAATT AGCTCCAGTC CTTTAAAGCA TCAGCTGTT
 120501 AGGAAGAGGT CTGAAATTCTA TTTCCTTAC TATCTTGTA TTAGTAGTGA
 120551 GCACTTCCCT CTTGAAATGC CAGTTTCCC ATCTGCAAAA GGCTGGTGT
 120601 TGACTGGTTG GTCTCTTCA GACCTGATGA TCTACGCTTG GTTCTAAAGA
 120651 TGGCAAAACT GAGGCCACCA CCAGTGGGGA GATTTGCCA AGTGTCCCTA
 120701 GCAGCAGAGT TAGAGCCAGA CCCGGTGTCT GCAGGATTTT AAGTAGCTCA
 120751 GAGACAGTC CAAAGTGCTC ATGCTAGTCC TTAGCTGTGG CTCAGTGGAG
 120801 GGCTGAAAT GAGCTCAGTG GGGCAGTTGC TGTTGGTGGT CAGCACCATC
 120851 CTGAGATGGT GAGGTGAACA CAGTCCCTGG CCACACCTGT ACAGGGAGAA
 120901 GCACCTGCAT AGGGAGAAC CTTCCATGGC CAACCCCTCT TTACTGAGAG
 120951 AGGACTCGTC ATCAACTAGG CACCGTGCTG AAATGTACAT CAACTTGGGA
 121001 GACACTGGCA ACAACCCATAT GGGGTACAGC TTCTACATTT AATAAAATGAA
 121051 AGCCTGAGGC TCAGAGGCAG GAGCTCACCT GAGGTACACAG AGATTGATGA
 121101 ACAGCAGAAC AGTTCACCAA GACAAGGACT CTGCCATTGC ACATGCAGGG
 121151 ACTTTGTGAG TGATGCTGAA CCTCAGACTG GCTCATGCTC CATCATCTGC
 121201 AAGGAAAGAT GGTGACAGCT CAGATTGCAG AAGGAAGTGA ATATCAAGCA
 121251 GCAACATACG TCACAGGCAC CTTCTCTTG CTGTGTGTGA TCATCCTGAA
 121301 CCCAGTCACC CTGGGAGGAG TGCAAGGCCA CGTGCCTAAGT GCAGGGAGAT
 121351 GTAAGGGCAT GACTTGGCA GTGAGACCA GAGCTCTGTG TCAGGCCCTC
 121401 CACGTGCTCA GAGAGAAAA TGCCACATC AGAGCGTCCT CTTGAGCAAT
 121451 GTGCTCACAG GGTCTTCTA TGCAAGTTCTAT TGTTGTATGG GATTCCAGAA
 121501 TCAGACCCAC TACCCCCAGA TACAGCTGCT GGCAGGGTA ATATAAGTAA
 121551 GTGGCACTCC ATGGCAAAGC TGTGTGCTGT AAGGGTGTGC AGTTCTCAGA
 121601 AGCCAGGGTC AGGGGCCTCC TGCCAGTGTC ACATGTCAGG TGGGACCCGG
 121651 ATTCTCCCT ACTGGCTGCA TAACCTTGAG CAAGTTATCC TCTCTGGGCC
 121701 TCAATTCTCCT CATAAGTCAA ACAGGGATAA CACTACTTTG CTCCTGTTT
 121751 TGGCGCTTCA ATATGTATGT TTGTGCCTAA GAAGGGTGTGG TTCAAAGTTC
 121801 CTTCTGCTCC GCCCACCCAC CGCCAGCTCC TGCTCTGGGA TCACTGACCC
 121851 CTGTGAGACC ATCAACTTCAG ACCAGGAGCT GGGGTTTGGC AGGGTGAAGA
 121901 GGGGGCCGTT TCTAGGTTTG TGCAAGTAACA CAACTGTAAA GGGTCACCAAG
 121951 GGTTGTTTTCG GCTTCTTAG CACAAGAGAT GAGAGTAGCT TGTGTGGGT
 122001 GATGGGTTTT TCACTAGGAA ACACGTTTT CTTCAACTTA TCTCCTCAA
 122051 TGCCTTCA GATGTGGTTG ATGATTAAGC TAGTTTAAA GAAAATGAAG
 122101 GACAGAACAG GAGAGGGAAC GCGCTGTCGA ATTATGTCCC TTTCTCCTGT
 122151 TCCTCAGAGA AATCAATCCC CCCTCCTCTG CCGTCTCTCT TTCTTTCTTC
 122201 CTCTCCCCCA ACCTGTCTCT CCCCTCCTCT CCCTCCCGCT CTTCATCACT
 122251 CTCCCTCAGT CTCTCACTGT CTCTGTGTAT CTCTCTTCCC TTGCCCTCTC
 122301 TTGGTCTCTG TTTCTCCCCG CCCCTCGTAC CCTGTCTCTC TCTTACGTC
 122351 TCTCTCTGAT ACTCTCGTAG TGTGTCTGTG TGTGTAGTC TCTTGCTCCC
 122401 GATCTCTCTC TCCCTCCTTC CCCCAATCCT GTCTCTGTCT CTCAGGCGCC
 122451 TCTGCCACACA CCTTGCTTAT TCTCCTCCAT GAGCCCGTGT TTTTACCGAT
 122501 GGTCGCATGA AGGCCACATG TTCACTGAGTG TGAGCCATTG TCACCGTGAG
 122551 TGCCATTCCC CCAGGAGCTG GGCCTTGTG CTTCTGCTC CCTTGGGAAT
 122601 ATGCCCATTT ACCAATGGGA AGACAGGCTC CATAGTCCC AACTGGAGAA
 122651 AATTGGGATT TGCCACTTGA AGGAGAGTTT GTTTCTGGA AGAAGCCAC
 122701 TGTGACAAGT AATGTGTCA ATAACGTGAG ATCAGGAACA AAACATGTCC
 122751 ATGTACAGTG GGTAAGATGC TCCCAGGAC TCGAGGCAAAC CCTCAGCAAC
 122801 TCAGCCCTGG TCCTGTACAG TATTGACTC TTTAGCCAGC AGCTGGGCTG

122851 AGTTTCCAG GGCCAGAGTG CTTGCCGAGG ACCCGAACGT TGCTGCAGCC
 122901 TGAAGGAGTG CCTCCTGCCT GCCCCTGCCAG CCCACTTAGG ACCGCAGCTT
 122951 GTTTGCAGCT GCAATGGCTC CTGCTATTG CATATTGCT TGGAAATGTGC
 123001 TGATTATAAA TCATTTACCT CTCTTAAAGT GGTTTAAAG GACCTCTGCT
 123051 GAGCAGCAAG TCCTGGCCAT GCTTCCTTAG CCTAATTGTA GTTGCTGCAT
 123101 GTACTGAAAT TAAATTACTT TTCACTTCA ATGTTCCCAA ATTCAAGCTGT
 123151 TGCCAAACACA GGCTGGCTGT CCTCCCCATT AGCCTGAACC AGCAAGGTCT
 123201 GCCTGCATGG GAAGCTGCAC CATTACCTGC CCATAAAGGG TTCCCTCCTG
 123251 CTTTCTCTGT GAGTCTCCAG GCAGATATTC TTCAGCATCT GCTCCCAAGA
 123301 GCTGGCTGTG AATGTGAAC CTGCCTCCCT GGTTGTTCAAG AAGCACATGC
 123351 TTAAGAGAAC AAATTTCTC ACAGCAGCGG CTGCTGAAGT GTCCTTTG
 123401 TGGCCATTGA AAGAAACTCT TAGAATGTCT CATGAAATTAA TTTTCTGGAC
 123451 AGAGAAATGG CACTACCTGG GGCAGACACA TTTCATTTTAAACAAAAT
 123501 TTATGGTTAC TGTCAAGGGT AATTTAATG TTTTAAAATC CTTGACAAAG
 123551 AAAAGGGAGA AGAGCTAGAA AGTTCTTGG CTGAAGTTAC CCTTCAAAC
 123601 ATGCCTGAAT TGAGCTTGAT TCTGAACATGC ATGGCACCTT TCCCTGCAGC
 123651 AATAATAAGA ACTGTTACCT AATAAAATACA AGGTGCTTAC ATTATAGAAAG
 123701 CTCTGAGCT TCACATTCA GATCTCAACT AATTCTATGA CACCTATGCA
 123751 AAGTAAGAAC GAAGGAATCC CCATTTACA GAAGGGAAAT ATGAAGCCCT
 123801 CACACTGACA TCGGTTGCAG AAGTGTGGCT ACATTCAAG TGTCCCTGACC
 123851 CTGACCGCTG ACACATAGGCT CTTTCACTG TGTTATGTTG TTACTTAAGA
 123901 GACGATAGAG ACCATGTTGC TGAGCAGCGT GTAGAAAGGG CTTCCACCAA
 123951 GTGCAGATAAC AGCAGTGGAG GTCTAGAAAG CAGGAGAAAT TCTCTTTATG
 124001 TTTTGGCAAA GCCAGGATGA GAATTCTAAG ATGACCTGTT TTAAACCTTA
 124051 TAGAATAGCA TATTCTCTT TGACACATGA TGATTCTTGT AAATGTAAGA
 124101 GAATAAAAGCT TTTCTCTCAT GTGGGCTAGT AGATATCTTC TATTCTTCCT
 124151 TCCTCTGGG CTACTGAAGA AAACCGAGAT TTCTTAAATC TTGGTTTAAG
 124201 AAAACCGAGT GAAGAAAAAC TCTATTCTT AAAAGTTTT ATTNTTATAA
 124251 GTAGCCTCTC CCAGTGTCA CCGTAAAGTT CTGTGTGAGA AGCCTTCAA
 124301 TGAAATGCTG CTTAAAGCTT TTTCTCTTCC CAATTCAAT GTTCTGCAAA
 124351 GAGAGGGCTC AGAGATGATG ATGGTGCAC TTGTGCAGGG CCTTCCGTTT
 124401 GCTTCAGGAG TCCATGCCTG GGAGAGGAGG ACATTGCCA ATTGCTGTA
 124451 CAGCAGAGA GGTGCCACAC CCAGGGAGAG AGAATCTATA TGGACCTCCT
 124501 ACTTAGGCAG AGGTGTATGT GGAGGAAGGT AGAAGGAAGT GAAAGGCAGC
 124551 CAGGTGGCTG GAGCCAGGAT GAGGAGAGCT GGAGATTGA GGTGGGGGTA
 124601 GGGAGAGAAC AGTCCAGAGA AAGACAGCAG GAGTGGACAT TCTCGCTTGG
 124651 AGGCCTGGCA GGCTGCAGGG AGGAGCCACA GACAGGAAAG CCTTTATAGC
 124701 CAGCACCTCT GTAGTGCAGA ATGCTGGCA AGGCCCTGCC CTGGGTGAGA
 124751 GCCAAGGAGG CAGCCTGGG GCTGTATAAC AGAACTGGCA GCAGGAAAGG
 124801 ATTCTTTTC CTGCTGAGCA TGTTCTGCC CTACCCAGAG GCCCTTACCT
 124851 GCCCTGGAGA CCTACTGATG TCTCCCCTA CCATGTCCCG CCTGTGCCTT
 124901 ACTGAAACAC AAAGACTTAT CATGAGAAGC TCCGAAGCAC CAAAAGGAAA
 124951 AGGCTGGATC ATGACCTGGC CTTGGCCTCC AGGCTAAATA ATGAGGCAAC
 125001 TCTGAAGCCA GTGTCAGAGG GTAAACTGTG ATGAAAGAAC AGATGATAAC
 125051 TAGCCCCATCC ACGGGGGACT GGAGTGCCT TAAATGGTCA GGCTTTAAAG
 125101 AGGGTCCAGT CAGAGCCCCA GCCAGCTTAT CCTAGCCCTT TTATTGGGAT
 125151 GGGTGTAGG AATGGGCTTC TGCACTCCAC ACACATGTAG GGGCATGTAC
 125201 ACTTGATCC CTGAAACAAGG CGGGCTTCT GTCACATGCC CTTGCTGGG
 125251 CATTGTTGCT ATCTCTGTAT TAGTTCATTT TCTTATTGCT ATGAAAGAAC
 125301 ACCCAAGACT GGGCAATTAA CAAAGAAAAA GAGATTTAAT GGACTCTTAG
 125351 TTCCACATGG CTGGGGAGGG CTCACAGTC TGGTGGGAGG TGAAGGAGGA
 125401 GCAAAGGCAC ATCTTACATG GTGGCAGGCA AGAGTTGTG CAGGGAACT
 125451 GCCCTTATA AAACCATCAG ATCTCATATA AGTCTTATTAC ACTATCATGA
 125501 GAACAGCATG GGAAAAACCT GCCCCCATGA TTCAGTTACC TCCCACCTGG
 125551 TCCCTCCCAC GACACATAGG ATGATGGTAG CTACAATTCA AGATGAGATT
 125601 TGGGTGGGGCA CACAGCCAAA CCATATCATT CTCCATAGGT GGCTTTGGTC
 125651 CATGACAGCC TGCAAGTTCC TTTCAATGC TCAGGCCTGG CTCTTGGCC
 125701 CAGGGTAGTC TGGATTATCA GCAAGGGGCC CAGGAGTCAT CATTCCAGG
 125751 AAATGCAGAG CTTCCCTGTA GGCTTGCTCT GAAGTCCCT CCTGCCAATT
 125801 TGTACAGCTG AGGGATCTCA GAGCCCCCTGC CCTCCCTGGG AGGCCTTGGG
 125851 ATCCCCACTC TCGTGCATAC CAACACCTTC TCCTTACCTG CACACCCCTGC
 125901 AAGCCATGTG CTGTGGTGAG ACAGCCCCCTG CCACCTGCTC ACTCTCACCA
 125951 TAGCTGGGGC CCCTGGCTGC TGTTCTGCT GTGGAGCTGT GAAGGCTGTG

126001 CTGTGGGTGG CCTGGCTAGT TCTCTGGCAG GGAGAAGTGC ACCATGGCA
 126051 AGGTGAGGGG TCAGCCTCTG TAAGCCCTAC AGCATTCTCT GGAAGCAGTC
 126101 CATTCTGTG AACTCTTGAG GGCCTGCAAC AACCATGGCT GAGCCCAGAC
 126151 TAACCTCTGG GCAGCCCCTA CCCTTGCCAG TTATGTTCA TGGGAGCCTG
 126201 ATTATTTTTA ACAGATTCTC CTATTGTTTC AGTTGCTTGT AGTAAATGTT
 126251 GCTCTGCAGC ATTGATGCTA GGGTAGTGC AGCCAGAAC CTGTGCAATG
 126301 CTCAGATCTG GCTCTTGGC CCAGGATAGT CTGGATTATC AGACTGGTT
 126351 TATTTTCTT GGCATTGCG TCTGGCTTCC TGATTATCTT TCAAACACAC
 126401 ACTTGCATGG CATTCCCTTC CATACTGAGC AGATTCATC AACAGTCTTG
 126451 GGATTCCACT TTTCCTTGC AATATGGACG TTTTGATC AGTTTGCAATT
 126501 AGCTGTAGT GAAACTGGCA CTGCATCTGC AGGCAGACAT CGCCAGACCG
 126551 CAGCACAGTT CATCTTCAGA TGTTTCCCTT TTCCATGTTG GTGGCAGCTT
 126601 CCTTGTCTCC TTCCCTCCTT CTCAAGATAA ATTCCCCCAA GCTTGGACCC
 126651 AGCAGTTCT GCCTATTCTC ATGGTTTTG TTGGGTATG AATGCCTTAG
 126701 ATGGCACAGA GAGGCATTGG AGATTTACAG CCCTTTTAT TATGACTGCA
 126751 CTTGAGCTGC TGTCAGCA GCAGACCTCT TCCTTTGAT GACAGTCAA
 126801 TTGGTCAATT CCGGGTGTCT CTGTTGGCTT CTTCATCAGA CTGTAAGTC
 126851 CATGTAGGTA GGGTCTATGT CTGACTTGT CACCTTGTG AACCCAGACA
 126901 GTGGTCCAGA GCCTGGCACA TAGTGAGCAC TCAATAAACAA TTATGAAAT
 126951 GTACAATAA ATAGAATGTT CTTTCAAGCT GAGCAGCTGA CTACCTGTGA
 127001 TGAGTCCCT TAAAAAGCT TAATAGCTT TTTTTTTTT TTTTTTTTGA
 127051 GACAGTCTCA CTCTGTCACC CGGGCTGGAG TGCAAGGGCG CAATCTGGC
 127101 TCACTGCAAC CTCTGCTTCC CAGGCTCAAG TGATTCTCCT GCCTCAGCCT
 127151 CTCAAGTATC TGGAACATAA GGTGTGTGCC ACCATGCCCA CCTAATTTTT
 127201 GTATTTTAG TACAGATAGG TGTTTGCCTA TGTTGGCCAG GCTGGTCTCA
 127251 AACTCCTGGC CTCAAGTGTAT CCACCCACCT CAGCCTCCCC AAGTGTGGG
 127301 ATTACAGATG TGAACCACCG TGCCGTACCA ATGCTGATA GCTCTTGAAT
 127351 GATCAGTCTC AGAAATAAAA CTTGCAATCC AGATTAACGC CAACCAAGAG
 127401 TTAAACATCT CAAGGCCAGA GAGCAACATG CTCACTGCTC ATGGAGTCAC
 127451 ATGTACTGAC CTCAGGACAT CCTGGTAAA CAGCGCAGTG CACAGCCCC
 127501 GGCAGGCTAG CTTGTTAGGG CTTATTAGGC CAACAGCCAC GGTCCCTTCC
 127551 AGCCTGGTT CCACCTGAAAC CCAGGGGTT ACTCGGACCG CTGCTATGTC
 127601 ATGGGCTGGC CTGCCTTCCT CCACACAGG GGCGTAAAT GTGATGTGCG
 127651 GCACCTGCTG TTTGGTGTG TGAGCTGCTC TTTCTTGGA AGTTTGCTG
 127701 AAAGGTAGGT GAAGCCTTAG GGAGAATCT CATTAAAAAA TCAAGTTCC
 127751 ACTTCCAGA GAAACAGAAG AACTATCATC CACTAAAGCA TTCTTCAGG
 127801 ATCATGAAGA AGTTTATTCA GCTGGGGTGG CAGCATCCGG AGCAGAGGTT
 127851 TAAGGTCTAG ATGTTAGATT GCAAGGGGAC TGCCAGAGG CCTCGCTGGG
 127901 GAGAATACAG TGAAAACAT TGAGGCAGAG GAGATCCTGG CTCCCACCGC
 127951 GTCCATACCA GGGCTCTGC ACCCTCTCTC CAGGAGCTGG GCCCACAAGT
 128001 AGAACCGGCT TCACGTGAT CCAAGCCAGG TATAACCAGG ACAAGGAGTG
 128051 GCTGGGGTTG AATCAGAGAA TGTCCTCTTA GGCAAAACCT TGTTGACTTT
 128101 GAAAGCCATG TGTGCTATTC CAGAGGTCTC TTATACCCAC ACCTCTCAC
 128151 TTCAGTGCCG CAGGATGACC ATGAAGCACT TTGGTGGTAT TTAAGTGCC
 128201 TCGGTTCTG CGAGAAAATC AAATAGTAGT AATGGCAAAT ATTACATAT
 128251 GGCTTATTCT GCACCAAGGT CAGGTCTCAT GGTGAAAGGT TAATATTATG
 128301 GTCCCGATTT TGCAGATGAG GAAACGGAGG CTTACAGAGG TGAAGTAATT
 128351 TGCCAAGGG CATCAGGCCA GTTAGTGGTG GAGCTGAGAT TTGAACCCAG
 128401 GCAGTCCTGGC TCCAGCTGT GAGTCCCTCC CCATCTGCCT ACTGCATGCG
 128451 GGGGTGGTAT GACCAGCAGG GTCAACTTCG CCTGGGGTCC ACATCTGCCT
 128501 TTCTCCCTTG CATTGGTGT TAGGTCTGTG CACAAACATT GTCCCATTGG
 128551 ATCCTTATAG GGAGGGTAGA GTGTCCCCGT CTTTCTAAT TTTTGGAGT
 128601 TTTTATTCAA TTATTTTGT TTAAGCAGAT AAAAGACACA TTAGCCACAC
 128651 TGCTGTGCAT TTCCCAAAGA CCACAGGAAA AAAACTCAA AACTCATGGC
 128701 ATTAACATAG TATTCATTT TCTAACAGCT TTATGGGAT ATAATTTACA
 128751 TGCCAGAAAA CTGATCCATT TTATGTACAA GTCAATGATT TTGGTCTGT
 128801 TTGCGAGAATT TTCTAAAATT AGTTTGTAC TACAATCTAA TTTTGAACA
 128851 TTTTCATCAC CTGAAAAGA AACTTGATGC CGATATCCAG GCACCCCCAT
 128901 GCCCACCCCA GCCCTAGGCA ACCCTAACT CACTTTTGT CACTGTACTC
 128951 TTGCCTCTC TGGCATGTC TCACATGGAC TCATACACAA TGTGTCACTT
 129001 TGTTCTGAC TTCTCCACT GGGCACAGTG TTCTTGAGGT TCTTCCATGT
 129051 TGTTGCATGT CTTTGGTTG CTGAATCATA TTCCATCACA TGTGCCACAT
 129101 TTTGTGCATC CGTCATCGG CTGATGAACA TCTTGGTTGC TTCCACTCTT

129151 TGGCTATTGT ATTACCCCTCT TTAGATGGAA AAAGAACTGC ATCCTAGAGA
 129201 AGCTTACGG CCTCGGTATA GACATCATCA GTGGAGTCTG GCTGGCCCAG
 129251 GCCGGTGCCT TCTGGTTGAT TCACTAAAA TAGGTGTCGA AACTGACACC
 129301 TATTTACTCC TTTTTTGTC CCAGCACTGG GCTCAGCCCT GGGAGCCCTG
 129351 CAGCAAGTAA GACGCACATG GTCCCCGCCT TCATGGGATT GTCATGCAGG
 129401 CAAGCACTAA GTGAGCAAAT CAAGGCAGGT GAGTGTAGG TAGTGTAGAG
 129451 TGCTGGGAAG GAAATCAAAT AAGATAATGT GGAGACATAT AATAAGGACT
 129501 TTAGAATTTT TCTGCTTTT AATTTTAGTT AAACCTCTCT CAATTCTAC
 129551 CGGGCAGTAG ACATTTCTAT TTTACTTAA GAATTATCCA AATAACATTC
 129601 ACTTTACATG GAAAATGTGC AAAGATTGAGA GAGGTGAGAA ATCACTTTA
 129651 TCTGTATGCT TTAGGGACTG AGACACTGCT GTGGATGGGG CGGCTTCTCT
 129701 CCATACTTTG TGGGGTCAGT GAAGGACTCC TCGCTCCCT CTGCCACCCC
 129751 TGCTAACAA GGCACCCCTCC TTTCCATTAA GCAATCCGGG TCATCGCAGA
 129801 GGCCTAACATA GCCCCAAGCA GAAACTGCAC TCGTGTGTGAG GAGCAAATTA
 129851 CCCCAGTTAT CTGGCCATGT AGAAAGCTAC AGTTTACTC TTCATGAAAAA
 129901 ATTAAAATCT TGTCTGATC TGATGTAAGG AAAAGGATGA GGCAACTTGG
 129951 AGGAACCTCAG CTATTGTTGA TCAGGGCAGAT GATAAACTAC ACATTTCTT
 130001 GACTCAGGGG ATCAATGGAG AATCTTAGAG AGAAACACTCAC AGAAGAAATT
 130051 AAGATTAAT TTGCAAGCCT GTAATATGGG GAATGCATTCA TAACAACCTAC
 130101 AGCAAAATAA GGCTCTCTCC TGAAAATGCA TTATTATCC CCGCTGTAA
 130151 CCACAGCTAC GGATGCTCTC TCCGTGGTC TGAACCCGAG TGGTTATGG
 130201 AAGCAGTCCA GAGACAGACG ACTTGCTCAC CAATACAGTT AGAATTTCA
 130251 ATGAGCAGTC AAGATATTT TAAACTGTT GTGTGTATAG CCACACCCATA
 130301 AATCGTGAAG ATGAAGGTAG CTGAGTGAGC CTAATCCAA ATGGGGCCAC
 130351 AATGTGGGCT TTATGCAGCA TACATTTTAT TAAGAGAAAA AAAATCAGGG
 130401 AATCGGTTAT GTGGCTCATT CCCACACATT TTTCATTAGT AATATCTTGG
 130451 AAGAACATCA AAAGTGGTTG CTTGGTTCAA TGGGGACCTT CAGTAGAAGA
 130501 ACATAATTG CCTCTTAATG AAACACTCAGT ACACAAACGAT ATGTACCA
 130551 GTGAAAATC AGGAAGAGAT ACTTGTATGG CTGGCATTAA TGATTGGCGT
 130601 CTCCCTCAGA TGTCTCGCT GTCAAAGCCA CACTGGCCAG ACAATGGGAA
 130651 CTTTCCAGTA ATTGAAGCAT AAAGTGACAT GAAATGTCCC CAACAAGAGG
 130701 TATGCCTCAG TACCTAACAGAC AGAGTTATTA ATTTAATTAT TTGGGCAAAT
 130751 TTCTGCTCTGA ATTCTCTGGA AAATTGGCAC TTCTCAGGAA AAGAAAAAAAAA
 130801 AACATTTTTT GCAGAGTTT GAAGATAAAG TTTGAAGAAG ATGCTTTCA
 130851 AAAAGTGCC GCCCCAACCA AATAAAATT CAGCAGGTTG TTCTCTAAGA
 130901 GAAGAGAACG AGACAAAACA TTAAAGGTC ATTTCCCCC CGTGTCTTCC
 130951 TGAGAAGAGA ATAACCTTGAG TCCATTAAGA GCGGGGTTTT GGGAAATCACA
 131001 CAGCACTGTT TGATATGCA CTCTGGTGGC CTTGGGCAAG CCACATGTGC
 131051 TCTCCAGCCT CAGTTCCCTT ATTTGTAAAT TGGGAACATA GTAAACCCCT
 131101 GTCTCCATAG GTTGTCTAGG AGGATTAAT GAGTTGTATG AAAATCATTG
 131151 AACACAGACT AGCAGGCCA AAGTAATAGC CCAACATAAT GGTAGTCTAT
 131201 TGAAAAGACC TAAAAGAAAT GGAATTGTT AGAATAGTAG AGCAAAATGAG
 131251 AGAGAAAATG GCTGAACCTGC TTATTGGTTA TCTGTGAGAA ATTTGACTCC
 131301 TTTCTTTAG AAATCAGAGT AGTATTGTA TAAGCCAAT AAGCTATCTG
 131351 CAGATTTGAA GAATATATTT TAAGCTTTT CTTTCTTTT TTCTCTA
 131401 GATTTTACT CACTAATAAT TATTGAATCA TTTAACATA TTTAAACCA
 131451 AATTTAAAC CTAATAGTA GGTAAACATC TTCAATGTCAA TAGTATTAGT
 131501 TTGCTTGCTT CTTAACGAAA ATGCTGACAG CAGAATAAGG CTGCAGGGGC
 131551 ACAAAAGTCT TCAATAAGAA AATGATTAC TGAGGACGTA CTGTGTGCCA
 131601 GATGCAGCCC CACCCCCAGA TGTTGAGGCA CTTTGCTAA GAGGCCAAGG
 131651 TCATGGGTGT AAACCTTAGG TGGGTCAAGTT AGATTCAATC TGATTGGCTT
 131701 GATCCTTCTT CAGGTGAAGA AGGATCCCAT GACCACATA TATGTATATA
 131751 TAAAGATGGC TCAATGAGTG TCTCACTGAC TGCGGGTCAG TGAGGTCCAC
 131801 TCTACAGAGA AAGGACAAGC TCTGACCCCTT GAATAGGGGA ATTGTAGTTG
 131851 GGTAAATAGG GCTCAGAAGG ACATGTTGGA CATGGACAGA GATTCTCCT
 131901 CTATCCTGAG AGAATGGACA TATGTCAGTG AAGGTGGAAA TTTGACATCT
 131951 GTGCACTTT TTTCTGTTG AGTTTACCAA GGAGGTAAGT GGCTAGGCTA
 132001 TAAAAAAATTC ACAGAACCAT TCTCCACAAAC AACTTCTCTC TAATCTAGCTT
 132051 TCCCATCATG CATGAATATT TACACCTGCT TAAAATGCTG GGGATTGGAG
 132101 GAACAAACTT TGTTCTCAGT CTTAAATTTT CCTGAGAGCT ATGAAAGCAT
 132151 TGGTATAACA ATGTGCTGCT AAACGTGAGGG CCTTGACCAAG TGTTCATGTC
 132201 AAGCCCCATGT CAGCCATGCA TGAAAACCAA ACTGCAATGT GGTATACACA
 132251 AGACAAGGCG GTGAGGGC CATAAGCTCG TTGCCAAGA TGTAGCACTC

132301 ACTAGCCGCC CAGTTCCCTTC ATCTTTTGT AACTGAGCTT AATGGAATT
132351 GCCTCAAGCT GAATGACAGA GCCTCAAAG GTTGGAGAC TGATTCCATT
132401 TGGTTTAGCT GTTCAGCAAG CCTCTTATCC GGGAGTGATG ATCTCATTTT
132451 TGCCCGTTTT TGCCCCAGCA GCCTCTCTCT TCACACCTTT CTGCTGGCCT
132501 CAGCACCTTT CTTGCCTCT GCTACTTTCC TTTCTCTCG TCCTCCTCCT
132551 TTCCCTGAAC TTAGCTTCTGC TGTGCACCCC TCACCCACCT TACCCCTCTG
132601 CCACCTCTC AGAGAGCCCC ACAAGATAAG CCTTATTTCGC CCAGACTCCT
132651 CTGGAGGGTG GACATTAAGA GCCAGTTCCA CCACTCAGAG CTCTAGAAG
132701 GCAGGAACTC TCACACACGC GTGAGAGCAG GGTAGCAGAG GTGGCTCACG
132751 AATGCAGATT CACTCACAGG CAAATTGTT AAGTAGCAGGG GAGGGCTGAT
132801 TATGCAGACC ACTCCAAATT CAATCTCCA GTTTATGTTA TCACAGGAGC
132851 TCATGATGGA AGCACCACCC GATAATTCCG ACTTGCCCTAT TACTTATTCT
132901 TTATCTAGAG GAAATAAAAGA GAAACAATTA CCTTGGTGTG ACATTCTGCC
132951 ATCTCTACAA AGCCACCTGC ACCTGAGACT TTGCCAGCAG CAGAAATAAC
133001 GAGTTAACGT CAAATATTT CATAGAGAAG AGAGTAGCAG GGCTATTGAA
133051 AATAAATTCA AAAGACCTTC ATGTATTCTG GTCTATATAC CCTGGCATAA
133101 AACTCTCCA GAGATAAAAT AGCTTCTGA CAGGAGGGTT GTGGCAGGGG
133151 AGGGGGAGGC ACGGTACAGG GAACAGGGAA GGCAGCCCTG GAAAACCCCTC
133201 CTGGCCTCCC CGTTCCACG GTGGACGCC GCCTTCTGA AAGCATCTT
133251 GAAATGATTG AGGTGAACT ATTACTGCAG AGCCCTTTTC AATAATGAAT
133301 TTAAATTAT AAATGACATT TTGGTGTGTG CCCTCTCTC CCACCTATTG
133351 GTAGTTAACT GGGAAAATTG ATGTGGTTT TGTCAAGCAG GAGCAAATT
133401 TCGGGAACAG GAGCCTGAAG CTTAGTTTA GTTCTTAAC GAGACATGTG
133451 ACGGACGTC AGCTCCCTG CTTCCCATAC TTAAATGCCT GCCCGGGCCA
133501 TGTCTGGGG CCAGCCTGGG CTGCACACGA GGCTCACAGC CTGCTTGTGA
133551 CACATGAGCT GAGGCATTCC TTTTATTCT CTCTCTGCTG AGGACAGCCT
133601 TTGGGAACCT AACATTAGGA TGACTTCGGG GCCACGGAAT GACTTGGTT
133651 TCCCCCGGAA CACTGTGAGG CTGAGTTCCC CCATGGGTGT TGGGAGCACC
133701 GGGAGGAAGT GGGTGCATC AATTAATTACG AGGGCCTCG TTCAATGAGAT
133751 ACTTATCAGT CAAAATGCA AAGCAGTTGC TGTTGTTTA CTGCGTTAA
133801 AGGAAGCTGC TAAGACAGAG GAGAGATAAT TTAAGACTAA TCATTGGTGA
133851 GCCAGCCTT TCCACTGACC CTGGTCTCG GAGTTTCTC TCATTGCATC
133901 AACCATTTTT GGCATTAGA TGTGCTTCC TTATTAATGC CAGGGTAGGG
133951 AAGCAGAAAA TGAAGGCTCT TCCTCACAAG TAGCTGTTA ATGTTGCAGT
134001 GCCTGCCCTG AAGTCACGAA AGCCATGGAG TTTGCCAT CCTGAGCAC
134051 AGAATGCCCT TAATGACAGC TACAGAATAG AACCATTAAC AGAAATGAGC
134101 AAATCCTGGC ATTTTCCACT GGCCTGTCA TTTCTCAGTG CACTGATGGA
134151 GCTAGGGACA CTCCCTCACG GGGGCTACAG ATGAAAATGC CCAGCCTGAA
134201 CCTGTGTTCC GGGGGGTGCT GTGCTCTCA GCTGGGACT GGCACCTGCA
134251 GTTCTCAGCA AGAGCCTGGC CCTGTCTCCC GTTTGTTCAT TCTTGGCAG
134301 CATGCGTGGA GGACATGATG AGAGAGGGTG ATGCAGGGGT CAAAAACTGG
134351 GGCATGGAG GATTGTGTGA ATGTCCCCATT CCCTGGTTAT TAGGCACCC
134401 CTGTATGCAA GAGGCCACCC CAGATGCTGC ACTCCCCATG TCTCAGCTCC
134451 CCCTGAAGAT GAGCCTAAGG TGGAAAAGAA ATACAGCAGG CGGAGTTGAG
134501 GTGAGATTAA GAATCTGTT TCTTACTGT GGGTTAGATC ATACCATCCC
134551 TGTAGCAAGA TGACATGGTT TGGCTGTGTC CCCACCCAAA ATCTCATCTT
134601 GAGTTGTAAT TCAAATTGCA ATCCCCATGT ATTGGGGAG GGACCTCATG
134651 GGAGGTGATT AGATTATGGG GGCAGCTCCC CCATGCTGTT CTTATGATAG
134701 TGAGTGAGTT CGCACAAAGAT CTGATGGTT TATAAGGAGC TTTTCTCCTC
134751 TTCACTCTGC ACTCATTGTC TCTCCTGCCA CCCTGTGAAG AGGTGCCCTC
134801 TACCATGATT GTAAGTTCC TGAGGCTTCC CTAGCCATGG GAAAATGTGA
134851 GTGAATTAA CCTCTTTCCCT CTGTAAATTAA CCCAGTCTCA GGTATTTCTT
134901 CACAGCAGCA TGAGAACAGA CTAATACCA AGATTTCTCT AGAGATTCTA
134951 TCTCTGTTAT TACACCTTTC TTAGAGATTC CAAATGTGGA AGACTCCTCT
135001 ATTCAAGCAT ATGTAGGTAA TGTGTTGACG CGGAGGCAGA GGTCTGGCCT
135051 AATAACCTCT TGACCCCCCTA AGCAGTTGGG CAGCCCTCAC CACACACTGC
135101 ATGTGTGGTG CTGCAGCGTG TGCTGATGGC TGTCCAAGTG GTTACGGGGT
135151 CAAGCATGAC TGGTCGGTGC TGATCTCAGA CCATGGGAGG GACACACTGC
135201 ATGCAGCTAG GAGCCACTTT GTCCAGTCAC GACCAAAGGG CCAAGCATT
135251 TACCCGTGCG CTGATACTGC AGACCAGCTG GTTAGGAGTC AAACTGCCAA
135301 GCAGCTGACA TGCCTTGACG TGTCAACCTGT ACAAAACACA CCATTGAATT
135351 TTTTTTTCT TTTCTTTCA AATCAGAGTC TCTCCAATAG CATCTGAAAA
135401 CTGTAGAAC ACAGCACTAG ATTACGAACA CATTGGACAG GCAAGGTTAT

135451 CTTCTCTAGA GAAGAAATCA ACAGCTGCC CTACTGGGAG GAAAAGTGT
 135501 TAAAGAAACA GGGAGGGAA GCGTGTCAAG AACTGAACT AGGTGATAAA
 135551 CCCTGCAGGA GTCACAAATAG CCTTGCTGA GAAAGCAAGG TCATGGGCAG
 135601 GAGCTCCCCC TGCCATGGCT TGTGAGTGTG AGTCCAGGCA AGGTGAACAG
 135651 TACAAGAGTC AGGGCACAGT GGGACTGGGA GTACAGGCAC CAAGGCCATT
 135701 GCCCTCCAAC CCCTGCTACA CACTCAGGGA CCTTGGGAAA ATCACATCCC
 135751 TGGTCAAACC CTGGTGTATT CATCTTCAA GGCTGGGTT AGACTTGATG
 135801 ACCAAGATGT CCTTGCCATG TCAGCATTG GATGGTCTTC TATCATTG
 135851 CTATAAGCTG ATTCTGAAAG TTGAAGACAA ATAAATCGCA TTTACATTAG
 135901 TATGACTGTG AGATGCCAAT GTTGGAGAGT CAAATCATGT CCTAGTATTT
 135951 CAATTAGTTC TCTATGCATC CAGCATAACCA ACTCTGAGCC ATTCACTGAA
 136001 GACTCTTTG TGATTCAGG CTGAAATAAA TTCTCCTTT TTACCCCTCCA
 136051 TCAATTGCCT TCCACATATC CTCACATTCTT CTAGGCATTC ACTAATATGA
 136101 TTTCTTTAT CATCAGTTGT GTTTTTATG GAGTCCTTTC TTCTGGAGCC
 136151 TCTTTTCTT ATTCAATCT AGAATGTTCT TTTTGCTCGC ACTCTCCTTC
 136201 CCAAGTTATC CTGAATTTC TTTCTGGCT TGCACTTCT CTTTCTGGG
 136251 GTACACCCCTT ATGTTATTTC CTGAGAAAGT GTGCACAGGA GTTCCACTT
 136301 CTATTACTCA CATATTGAA AATGCTTCA TTCTGTAATT GTACTTGATT
 136351 GACAGATCGG CTGGATATAG AATTCCAGGT TGAAAATTTT TCTTCTAATA
 136401 GTCAAGATAG TATAACTGCT ATATAACCCC CAAATATCAG TAGTATAATA
 136451 CAGTTTATTG TATACTCACA GCACAGCCTG CTCATCCCC TGATGGAGTG
 136501 CAGGAGTTCT CTGCTCCACA CGGTAATTCT GAAACAGAT TCCCTCTATA
 136551 GTGTGGCCCC CAAGGTCACT ATGGACAAGG ATGAGAGGGAA GATTGAAAG
 136601 AACATGGAAA AGGCCAGCA GCTCTTAACACT GATCCAGCCC AGAGGTGACG
 136651 TATCATTCTA CTCACACCCT GTATGTGAGA CCTAGTGGAA TGCCCCCTC
 136701 TAGACCAAGG GGGATGAAAA GTGTAGTGT AACTGTGTAT CCAGGAGAGA
 136751 AAAACCACAC CGTCATACTT TTAAAGGCAT CATCTTAAG CAAGCAGTGT
 136801 CATTGGTAAA AAGTCCAATG CTAGACTGAT CCTTATTCTC TGTGGGTGAC
 136851 CCATTTAACATC TATCTGGAAG CTATTAGGAT CATCCCTGTG TTAGTCCACT
 136901 GAGGCTACTA TAACAAAATC GCATAGCCTG GGTAGCTGAT AAACAACAGA
 136951 AATTAAATTC CTCGGTGGCT GAGAAGTCTA ACATCAAAGC ACTGGCCAAG
 137001 TCAGAGTCTG GTGAGGGCCC ACTTTCTGGT TCATAGATGG CACCTTTCAG
 137051 CTGTGTCCTC ACATGGCAGA AGGGGCAGAG GCCTCTCTGG GGTCTCTTT
 137101 ATGAGGGCAC CAATCCCATC CATGAGAATT CCACTCTCCT GACCTAATCA
 137151 CCTCCCAAAG GCCCCACATC CTAATACCAT CACCTGGGG GTTAAGATTT
 137201 CAACATATGA GTGAGGGGG ACACAGCATT GGGACCAGAG CAATCCCTTC
 137251 ATGAACCCCTT TAAGGTTCAT GAGAGTAGAA GCTGATTAC CTCACTTATCT
 137301 CCAGTTCTA TGCCITGGCAC AAAACAGGGC GAGGATCAGA GTGAGGCAAT
 137351 TGAGGTGCGT GCCTCCAAACA CAAAGACGCG GTAGTTAAAA CAAATAATAT
 137401 TTTAATGCAA TATTTCACAA ATCAAATTA ATGAAAAAAATC ATCCATGATG
 137451 AACAAAATAA CATTAATGTC CTTGATGTTA AAAAATTTTG CAATGATGTT
 137501 TCTGACTTTG TGGTCCTTT TGTGGGTCTC TCAGCCTAAA GACATATATC
 137551 CCTCCTCAAAG TAAAAGCAAT TATAATTTC TTAAGCAACT TCCCTCTCT
 137601 CAGGTTCTG TCTTCTAAA AATCTTAATT GCATGTGAGA CCTCCTGTAT
 137651 CAATATTTC TGTTACTTTT CTCTTAAAGT GTCTGTTCTA TATATTCTTAT
 137701 TCTATATTCT GGAAAATTCT CTTGGCCTTA TCATCTGATC TGAGTATTGA
 137751 ACTTTTGTT TCAAGACTCA TGTTTTATT TATTATTATT TATTATTATT
 137801 TATTTCATT TATTTCATT TATTTCATT TATTTCATT TATTTCATT
 137851 TATTTCAGAG GCAAGTTTC ACTCTTGTTC CCCAGGCTGG AGTGCAGTGG
 137901 TGCAATCTG GCTCACTGCA ACCTCCACCT CCTGGGTCA AGCGATTCTC
 137951 CTGCCTCAGC CTCCTGAGTA GCTGTGATTA CAGGCACGCG CCAACTACTCT
 138001 TGACTAAGTT TTGTATTTC AGTACAGACG GGGTTTCACC ATGTTGGCCA
 138051 GGCTGGCTC AACTCCTGA CCCAGGCTGA TCCGCTGCC TCAGCGTCCC
 138101 AAAATGTCG GATTACAGGC GTGAGCAACT GCGCCAGGCC TAAGACTCAT
 138151 GCTTTAATT TTCAAGCACA CTTCTTGTCT TTCTGATTCC TAGAAGTGGC
 138201 ATCTTGTGA AACCGACTGA GGATACAGT TTGCAGTGTGTT TGGCTTCTT
 138251 TGGGAATTAT GCTTTTACTT TTAGTTTCT TCTGTCACAT GGATTATCTC
 138301 TGTTGGGTT TTATTTTAG TCAGCTGTCA TTGTTGTT ATCTGTTTGT
 138351 TTTCAGCTCA TCTGTTGTAC TGCTCTGTGT GTTTCTGTT GCGGGTCTGG
 138401 CAATTCTGG TTGTCCACTC CAATACGGAA GTAAGGACAG CACAAGGGTT
 138451 GACTGGAAGC TCTTATTCCA GGGCAGGGC TGTCAGCTGG CAGTTCCAC
 138501 TTTAGGATGA GCAGGCTGGG AGCTGGGTGT CACGTGAGCA GCCCCTACGC
 138551 AATGCCCTTC CAGAGTATGG AAGGTGCTAA CACCCACAGG AACCAACCGTG

138601 GTTCTCTGCG GGCTGTGGAT TCCATTCTT TAGGCAAAAA ATTCTCTGT
 138651 TTTTTTTTC TGCAATAAGAG AGTTTCCAC ATATAGCGCT TCAATTTC
 138701 CCCATCCTTA TCTTGACTGT GCCTCTGAGG GAGGTGTTAT TTGGAGGTGG
 138751 GCTCCCTGTA CGGGGGCTGC CTCTCTGCA TATGTTCTGG GCTGTGGGCT
 138801 GTGGACTGAG GTGTCTCTG TCCTGTGCAG CAGTGAATGT TCTGGAAATG
 138851 TACTTAAATC CCTTGCTCAC CAAGGGTGC C TCTTCACTA TCTTTACTGT
 138901 TGTAATTAC TCTTTAAAG ACATTGTAA TGAGTCTCAG CAGGCAGAAC
 138951 AAATGCATGT ACCTACCCCTG TCATTTGAA CCCTCTCCTT TTGTTTTAA
 139001 AATGTTGAA ACATCTGGCT TTCTAATATT AGTATGTGGC ATTCCCAGTT
 139051 TAACATGCC AAAGCAAAGC TGTTCCATCC CCTCTGCCAG GTCCAACACT
 139101 ATCTGCATCT CCTCCAGTCA TGCTGGCTGC AGGGAACAGC ACCAAAATTC
 139151 ACCCACTGTC TTAAAGTGGAA AAACCTGGTC ATCTGTCAATT CATCCCTTTC
 139201 CCAAAGCCAC ATCTCAATGC AGCTCTGGTT ATGAGCTCTT GGACTGTTCT
 139251 CTTCTCCTTG AGCAGATCTT GCCAACAGAG TTCCCTGGCTC CATTGCATCC
 139301 CTGGCCCATG CAGCCCCACGG TCCTTCAGAA TGCGGCATT GGTCCTCCCA
 139351 GCACACAGAG GAGAATCTAT CACCTTGATC GCCATTGGC CTCTTCACAA
 139401 TCCGGTCCTG AGGGGGCTTT CTAACCTTAC CTCCCTCTGC TTTCCTCTGG
 139451 CTCCCTGCCCT CTGGCCAAGT GAGACAGAG GTCCCCCTCTC AGACACATCT
 139501 TCTGCTTCA CATTCCTGTG CATTGTTCA GCTTGAGATG CACTGACTTC
 139551 TGTGCGGTCA GTGCAAAAGT AATTGTTGTT TTTGCAATTAGAGTAATTAA
 139601 TACCTGCCTT TCAAATACTG CCCTTCCTT AGGGCCTGGA TTAAATGCTA
 139651 TTTCTCAAGA AAGTTCTATG ATTCCCTGCAC TTGTTAGGGAA TCTCTCACCC
 139701 CCTCCACCCCT CTCAGCTCTT CCCTCGTGTG TGTTATTGTG TAAACGTATAG
 139751 GTCATTCTGC ATGTTGGTTG GGTAGCCGTC TGTTTCCCGC ACTGAGCTGG
 139801 AAAGTCTTGG AGGTGAGCTC GGTCAAGTGGT GGCCTGCCTG TCAGAAGTCC
 139851 CTTGGCAGAG GTTGCAAGCAC AGGAACAAGT GGGGGAGTTT GCCCCTGGCT
 139901 GCCACACTGA GTCTCAGGTG TGGGACCTGG ACCTTAGGCT GGGGTGTGGC
 139951 TTGCTGAGCA GCTGACCTGC GGCGCTGAATG GTGGTGCTGC TGATACAATG
 140001 CTGACATGGC TAGAGGGAGA AAAGGCAGTG GCTCCGTGGC TTGGGCTCCT
 140051 CTGCCTTAGA GGGCAGGTCT AGTAATTCTC TCAGAGAAC TTCGAGTCGG
 140101 CCTTCATAAAG AAAACAGAGG AAGAGATGAA GCCACAGTCA CCTTCTTCCA
 140151 TTCTTAACCTC ACCCTAATAC TGCTGATCAC CTGTCCTGG AATGAACCAA
 140201 AATACAGACA GCCACAAACC ACATCCAGCT TATCATTCCC ACCCATCCTG
 140251 GACTGTGGCA CCCAGGGTCT GGTTCTAGCT CAGTGGGATG GAGTCATCTG
 140301 CAAACCAGGA GAGCGATGCC CTGGGGCAGG GACACCCACA GGGCACTAAG
 140351 ACAAGAGCCA CAGAGCCCTT GTTGGTGCCTC AGAGGTCTG TGCTGGGTGG
 140401 GCAGGCCCTCC CCCTGCCTGC CTCCCCCAGC CTTCCCCATG GTGGGAAGTA
 140451 ACTATCTCTT ATTTTCATCT TCCCAGCAAG AGGAGCTACA AACAGGCTAC
 140501 CAAGTAAGTC ACCTGGTGC TGTTACACCT TCCCCTGCT GAGAGGCTCC
 140551 TGCCTGTGAG AGGACAGGCA AATTGCTCCA TAAATTATGA ACCTGGAATG
 140601 AATCTGCCAG GCGCCTCCTG TGTGGGGTTG AGGTTGTTCC CTAGGAGTGC
 140651 CCCATTCTGA AGACAATTAC TCTAATTGCT TTTGTTATTT CAGAAAACAA
 140701 ATTAAACCAC CCGAGTGTGTT CAAGGTAGAA AAACGTCTGC AATGTATAAG
 140751 AAACATTTTA GGAGTGTGTTA GTTCACAGCC AGCAGTGTCT GAGCAACAG
 140801 CCAGAAAGCA GTCAACCAGGG AGCACAGGCT GCTCAGGAGG TTGAGGGCCTT
 140851 TATGAGGTGA GCGCGTGTCT CCATCGGGGT GGGGGTGCAA GCCTCTACTC
 140901 CTGGCTTCTC TGAGGGAACT CCTGCCCTTC TCTCCCCCTT GCCTGCAAGA
 140951 CCTATGGATT CTGTCCTCTG CCCATCCCCCT CCGTCACAGC CTGACTCAG
 141001 GCCCACCCCTC TGTGACCCAG ATTTCTGCAG CAGCCCCCTGC TGAGGTCACT
 141051 GTCTTCCCTC CAGCTGCCCT CCTTTCACTGC GCAGTAGGGG CGGCCCAAGA
 141101 CACAAGTAAC ACAATCAGAT CATAATTGCT CACTTCTTAA TGCTTTGTG
 141151 GCTTCCTGTA AGCTAGGAGA CAACGTATCA GACAACCCCTT GGCACTCAGGG
 141201 AGGGGAGAGC CAGGCCCTC CTGCAAGGCC AGCCGTGGGA AACCTGGCTT
 141251 CTCACACCTT CACTCTGTCA TGCCACTGAG CCTCTGTCCC AGGAAATGCA
 141301 GTGGGTGTACA CATAACACACT CACACACACA CACACACACA CACACACTCA
 141351 CATATACTCA TTCTCACACA TGCTCATATA CACCCCTCATA TACTCACACA
 141401 CTCATATACT CACATACACG CATACTCCCA CACTCATACA CTCACACTCA
 141451 CACACATACA CATATACACA CACACACCCCA CATACTATT CAGACATATA
 141501 TACACACACA CTCTTACACT CACACATACA CATGCACACA TACATACATA
 141551 TACTCATACA ATCATACTCT CACATACACT CACACATGCT CACACACTCA
 141601 TACACTGTCA CATATACATT CACACTCATA CACATACACA CACATACAGT
 141651 CACTCGTACT CACACACTCA TATTCTCACA CACACTCTCA CACTTACACA
 141701 CACACACACT CACACTGACA CACACACACT CACACTCTGA CCCTAGACTG

141751 CTCCTCATTC CTCAGGCCAG GCGTCCTTCC CTGTGAAGCC TTCCCCAGCG
141801 TGCTGGGCTT AGGACTTATC TCAATTTCAC ACTGTCTTGC ATCCATTG
141851 CTCTCTGTTG CCCTGCCAG ATTGTGAGCA GCCTGAGAGA GGCAAGGGCCT
141901 TGCCCTGTTG ACTTTGTACT CCTGTATGT GGCAAAAGGGT CTATTTATTA
141951 CTCAGAGGGA ATTCAATAAA TGTTGACCGG ATACATGGTA GATGGGTGGA
142001 TGGATGAAC TTGAATGAAT GAGTAACCCCT GAGGATTGGT AAATGTTCTT
142051 TTTTTTTTT TTTGAGACAG AGTCTCGCTC TTTCGCCAG GCCGGACTGC
142101 AGTGGCGCTA TCTCGGCTCA CTGCAAGCTC CGCCTCCTGG GTTCACGCCA
142151 TTCTCCTGCC TCAGCCTCCC GAATAGCTGG GACTACAGGC GCCTGCCACC
142201 GCACCCGGCT AATTTTTGT ATTTTTAGTA GAGACGGGGT TTACCGTG
142251 TAGCCAGAAT GGTCTCGATC TCCTGACCCC ATGATCTGCC CGCCCTCGGCC
142301 TCCCCAAAGTG CTGGGATTAC AGGCTTGAGC CACCGCACCT GGCCGGTAAG
142351 TGTTCTTGTG CCAAGGAATT CTTCTACCTC AACTCCACTC AAAATGAGAA
142401 CCCTGGGGAA GAGAGAGATT GATGGATTGG CTCATCAGGG ACTCTGTCCC
142451 CACCCCTGCC CTCCTTTCC CATATGGGA GCAGGATGTG GTGAGAAACT
142501 TGCTCAAGAA GTGGGTAAC ACTTGATGG CAGAGGCCAT GTCCCGTTTC
142551 CTTCCACTCA CAACCAAGTG AGGGCACA ATTATTCTT CCCCCCTGCC
142601 CACTGCAGGA AAATGTACAA ATCTACTT AATCTCTCCC ATAAGCACTG
142651 GAAGCTTGTG GGCATAGGGG TTAGAGGTCT GGTCTCTACG ATAAGCTAGC
142701 CACGATTTG AGCCTTCAAC CATCGATAAA ATCACTTGGA AATCCAGTAT
142751 CCCTGTTAGA GTTGGTTCA GTGCCATGTG TGATGCTGC TTTGTCAGGG
142801 TCCTCATTAA GACTTCTTC CTCCCACCTT AGACAGCACT GACCCTCTGT
142851 TCAGGCTCAC ACAGCTCGTGC TCACCCAGGC CCACCTGCAG CTGTGCTGCC
142901 ACTCACAAA GTCTGAGAGG AACTGCTCCC TTACCAGGAC AGTGAGCACT
142951 GGCCCCAACCC CACTGTGCTC CTCCATGTG GTGGGGAGTG GCCTCCCCAC
143001 CCCCTGCCCA GAGCAAGAAC TGATTCTGGG TCACCCACCC AGGACTAGAA
143051 CCCAGAGCTA GTCTGCCATC CTCCGTAAAC ACCACCGCTC CCACCATGGG
143101 CTGGGCTCAG CACCCCTGTTT GGGGCTTCGGT GGAATATGTG GCATGGGACC
143151 TGGCCTCAGG AAGCTTATTC TCTATTTGGG GGGAAAGTAA CAAGATAATA
143201 CAAGACAGCA CAGAATCTG TTCATATTTC TGTGGCACGG TCTTACGGAT
143251 GAGAGGAGCT CAGAGGAGAC TAATATGGGT TAAATCAGGT AGGAAAGACT
143301 TTGAGAGGCC ATAAGAAACTT GAGCCTGACT TTGAAGGGTG GGTAAAGAAAT
143351 AGAATGGGTG CTCCAATGG AGGGAACACC AGGAAAGAA AGGAGTGAGC
143401 ATGGCATGGG CAGAGGCCAG GGGAGACCAA TGTGGCAACG CCTTCAGGG
143451 ACTAGCAAAG ATAGCAGGCC GGACTGCCCT ATGTGCAAAT TACCATTAT
143501 ATAAATGACT GATAACCTTT ACTGAGAAC AATGAGGAGA GAGAGAGAGT
143551 AAATACAAAAG TGACTGCATG CATGAATCAA TTAATAAACG AAGGTGTG
143601 GCACCTGAAG GCAGGTTGGA AAATAGGAAG GACCAGCAAA GGTAGGTGGG
143651 GGTTGGGAA GCCAAGCACT GACTTCTTGG GGATGTATTA TAGATGTGGT
143701 TGAGTAGAGA CTGCTCTAT CAGGGAAAGGT CACAGAAAGG TCCCACCTAA
143751 ATTACTAGTT GAGTCCGCTA TATTTTGAT GAAATACATA CATAAAAAGT
143801 ATGAAAACAG CCTCTTCTTT TGCAAACTT TTGAGAATTG CCCGATCAA
143851 ATCCCTGCAGC TGGGTGAGCA ACTCCCTGGC TCGACTCTGT GTGGCCTCCA
143901 GGTCCAGGGCA CCAAGTTTC CCCAGGCTTC CTTGAGCAG CCTTCTCCCT
143951 CCTTCATGGC TGACCTGCAC CTCTCCCCCTC CATGGGGGGAA AGGTAGGAGT
144001 ATGAGCTCAG TGCTGGAAAGC TGCTGTTCTG GGAGAGTTGC TTGTGCCACA
144051 GGAGTCAAAT GAACTTTTCC CCACGAGGCC GGCCCCCTCTG CTGATGCTGT
144101 GTTTGTAAAAA CCAGTAAAGG TTTTCCTTTT GTGAAAGAGA GAGAGAGATA
144151 TCCCTTGAAC AACTGGAACCC TTTTAAGCCT GGGCTATGGT TTTGTTTGGG
144201 GTATTTGGTG GTGTGGGGGT GGGACTGTCT TTCTCATTAT TAAACCAGAA
144251 AACACCTGCAT ATGGACTCAG CAATGAAGAG TGATTTGTT CTTGGGAAA
144301 TGTAGCAGCC TTCAAGTTAG TAACTGGC TCTTCTGGC ACCTCCACTG
144351 CCGCACCTGG CCTGGTGGAT TTGCGCTCAG ATAGAGCAAA GGCAAGGGCTG
144401 GGCTACAGAT GTCTTGTGCA GACGGGGAGG GGCGCCCCCA ACAGTCTTA
144451 GTGTAAGTGT CATCTCAGAA GCAGAGCTTC TAGGTGGAAC ATCCAAGGGC
144501 ACCTTGAGAC GTGAGACGGT TGATCCATCA CAGTTGTGAT ATGTCAGTGA
144551 GTACACACTC CAGGTTCAGG GACTGTCACC TTGGGAGGTG ATTGAGACTG
144601 AATTCAAAAC AATGAATCGA TACTGACATG GAAGAATAGT TTGGCAAGAA
144651 GGCTTGGAAC TGCTCTGCAC CAAATTGTA ATGCCAGTGA AGAAGGCCAGT
144701 CCTTGGCTTC CCCAGCCTCC ACCTAACTTT GCTGGCCTT CCTATTCTCC
144751 AGCCTGCCCT CAGGTGCTCA GCACCTTCAT TTAGTAATTG ATTCATTAT
144801 GCAGTCACCT GTATTCGTTC TCTCTCCTCA TTTGCTCTCA GGAAAGGCTA
144851 TCAGTCATCT ATGCCAGGAT ATATTAAAGT CAAACTCCTT GACACAGGAT

144901 ATTGTACTTT AATCTTCATA GCTGTATGAA AAACCCAGTC CTCTGATTAT
 144951 GTAAGAAAATT TGTCTTAGGA GGTTGAGAAG CCAGGAAAAG ATGAGGGAGG
 145001 AGAGTGTGCT TTAGGGAAACA GACCATTTC CCTGCCTTGC TGTCTGGGTT
 145051 TGCACCCCAG AGAAGAAACA CAAAGCACAG GTACAAGGGG AAAATGGATG
 145101 GCCAGTGGTG AAGAGAAATT GCTCTAACAC TTGGTTGAAC TCAAGTCAA
 145151 ATACGACAGG GACAGTAGG GATTTACAGC TGGTGGAGTA AGGGAAAGGA
 145201 TGGAAAATT A CCAAGAGGGC TTAGTTGGT GTAGGGGGTG GGGAACTTGA
 145251 TTAGACTTCT AGGTGGAGGA AGAGACACTT GATTGGATAT CAAGAGTGG
 145301 GGATCCTGGA TAAATTGGCT TCTCAGGATT CTTTGCTAAA ACTGGGCCA
 145351 GTAGACCAAG GATTAGGCC TGCAAAGCAG AGGGCTCAA AAAGCCTGAC
 145401 TAAAATTGT TCAAATCTCT GTCACCAGGT ACTCATAGGA CAGGGAGTGT
 145451 CTGTGAGGCC TGACACACAG TCACTAAGGA TGCTGGCGTG GCCTTGGGCC
 145501 TGCGTGATT GCTTGCTGGT GCTTCATGCA TAGTAAAGAT GGTCAAATCC
 145551 CTGAGACCTA GAAGAGACTT CCTGCCTCGC ACGGCATTCC TCAGCCAGGC
 145601 TTTGGAAGGA AGATGAAGGC AGACTCTGGT TGCTTGCAGA CTCCAGGAGC
 145651 ACAAAAGTCTC CCATCTCTGA GACCTTGGCC CAGGCGCAGC TCAGAAACTG
 145701 AGTGTGGTGT CAGGCTCACCT GCTCTCTAGG TTACAGAAAG CCCCAAACCTG
 145751 GCTCAAATAG TAGGGAAAAT TATTTTACAGA CATTGCCAAG TCCATGAATA
 145801 GGGCAGGCC CAGGCTCAGA ACCATCATCA GTATCAAGCG CCGGCTTCCT
 145851 TCCACTCTAT CATCCTTCGT GGGCCAGCTT AGCCTTCCAG CTGGACCC
 145901 CAGAGTCACT CACAGACCCA CATCCAAGGA AAAAGACTAT CTCTTCAGAA
 145951 TCCTTCTTAG CACTCCTCAC ATTTCACTGG CCAGGGTAGT CTACCGGCTC
 146001 CTTCCCGAAC CAATCGTTGT CATGGAAGTG GGATTTCAGG AGTGTCTTG
 146051 ATTAATCGTT AGGAGTGAAG TGGAGGCTCC AGAGTCAAC CCTGCATCCT
 146101 CCACATGTGC TACTTTGAGT CCACTTGAGT TGAATTGAAT TCTGGGCCAC
 146151 AGAGTTGAGT GTTAATGGGC TGAAAGATAA TTAAGGTGTT TTCTACATCT
 146201 TGGAGTGAGA ACAAGAGCAC GCATGTGCC TGGCACCAAA GGGACACAGA
 146251 GCTTGGCATA TTTCTTAGGA ATTCTCCAGG GTGTGGGGAG AGGGAGGACC
 146301 AAGCTCCCAG GCCCTGCCCC TCAAGGGCTA TGAGTGCCAA GCCTGTGTGT
 146351 GAGCACCTGG CCAGCTTTCT GTTTGAGAAG ACATCATCTG GGGGGCCAGA
 146401 GGGGACATCG GGGCATGTCA CAGAAGCAGT TGCGTGGCT CTCTGCCTC
 146451 AGTGAGGACG TGGTCTTGAG ATCTGTGTCT ACCTTCTCT CCCAATGCC
 146501 CCTTCTTTGG ACAGTGTCTG TGATGGACTC AGGTGAGGTC AGATGGTTT
 146551 TGAAAGCAGA TGGCCCCCAC TTGCTGCCTG AGACCATTGT TTACTTCTCA
 146601 TATCATGGCT GGCAGCAGGG CCTGTGCTTG GCAGGACTCT TCCTCTAAAC
 146651 CTGCATAGGC CTAGAGCTTG TCTCATCCTT GCTGAGAGCC AGGAGGTTCT
 146701 GAGGTGTGGT TGTGAGAATG TGTAGTTATT TTCTTATTAA AACATCCTAG
 146751 GTCTCGGTCT TTTCTTTTTA AATGTGTTGG GGGAGTAAAG TTCTCAAATG
 146801 AAGATAACTT ATGAGACTTA TTACGCAGGC TGATCAAATG GCATGATAAA
 146851 TCATATAAAAT GGTATAAAAT GCTTTGATAT GAATAGCAGA ATAGTGAATA
 146901 AGGATGAAGC ATCCAACCT TCTCCAAGGT CACTGGAGTG AAAAATATCT
 146951 TATTGGCGC CCCAGATATG TCCAGTCAGT CAGCAACAGA GCCTAGCTTG
 147001 TAACCTCCGT AGAATTCTT TGCTAATTCT GAGGGTTGT TTGTTGTTT
 147051 GTTTGTTGT TTAGGGAGTA AAAATCAAAT TTGCATTCTAT CCCAGGATGT
 147101 TTCAAGGACA GATTACAGC AACAAACATT GGTGAACTAA AACTGGGAGA
 147151 TTGCACTGTA GAGTTAGGAT ATGGAACAGA AAAATGTTA AAGCTCCAGT
 147201 AAACTACCTA GAAATGTAAT TAAGTCCCTT GCAAGAGGCC AAAATGCCAA
 147251 AAATGTGACA GTCACCCCTGT TCTTGAAGAA CCACTCTGG AGGTAAATCAG
 147301 TCTGTTATGA CAGGGAGGA TGGATGGAGG CCCCCAATATT GTGTCGTGGA
 147351 TTGAAACCCA TGCTAGTTAG GGTATTGTC CTTTAGATTG GCAATTAA
 147401 TATCAGAGCC ACATTGACAG ATGGAATTG AGTAAGTGTAT TTGTGCAAGC
 147451 AGTCCACAAC TCACAAGAGA GTTTGCTCC CAGCAGTTA GCATTAGGCA
 147501 GTCATCTAGA CCTTTGAAAA CAAAAATGCA TTTTTTCCA CAGGAGTATT
 147551 CTCTCTGAAATG TGGTTGACT TCTGCACTAG TGTCCAAAC TTTATTTAAC
 147601 CTTCAATGTT GCTAAAAACT ACTTTATACA TACAATTAAT ATCATGGAAT
 147651 CCAATGTTAT AAGAAAAATT GTAGCACTGA AAGGGAAATT GTTCTTTAT
 147701 TTTCTCTTGC TTGGCGTAAC CTGAAGGAAA CAGATTAAC TGAAAGAGGA
 147751 TGAGAAGTTA GCCTCAGAGC ATGCAAGAGT TGGAGGGCGT TTGAGGCCAGA
 147801 GCTCAATTCA AGCCCTGTT TATCAAACGA GGAAACTGAG ACTCAGAGAA
 147851 ATTTGGTGTGTT TGGCCCAAAG TCACACAGCC AGCAGTGTGA CTAGCATTCA
 147901 GGCCTGCCCT GACCCAGTGA ATACTCCCTG TAGAAAGTTT CCAAAGAGAC
 147951 AATCAGATCC CCTAGGTAGC GTTGGGCCAG ACTGGAAAGT CGACTTTTT
 148001 TCAGTTTCAC TATAAAACAT GCCCTGTTAC TTCTTAAAC GGAGATGAGG

148051 CTTGCGACTA TTAGGCTTCT CTAGGAATAG AGCCCTGGAG CTCATAGACA
 148101 GAAAGAAAAG AAATGTGTGT TCATGCGAGA AGCAATGATA AGGTGAAACT
 148151 AACTGAGCTG GAAAATCAGA AAGACCAGGA GCAGAAAATG TGTGGTCCCT
 148201 GCAAGGAGGA CGGGGGACCC CAAAATCAGA TGGCGGACAG ACAGCTGCAC
 148251 ACTAGGTGGC GCTGTCATCC CCCCGGTGGC TTGGTTGCTG CCCTTGGAAA
 148301 GAGCACTGGG GAAGGTGTTA CCGGTGGAGG GTGTCCAGGT TCTCGGTGTC
 148351 TTGAACAAAG AATTGGACAA AACGCACAAA GCAAGAATGA AGTAACATAA
 148401 GCAGAGATGT ACTGAAAATG AAAGTACACT CCACAGTGTG GGAGCGGGCC
 148451 TGAGCATAGG GCCTGAAGGG CCCCGTTACA GAATTATGG GGGCTTAAAT
 148501 ACCCTCTAGA GGATTCATT GTTACTTGG TTTACACCCCT ATTTAAATGA
 148551 AGAGGATGAA GTAAAGTTAC AAAGTCATT ACTCGGCCGTA CACCCATATGG
 148601 GGAGGATATT TCCTTTCGTA GCTGAAGTGT GAATCAGCCT CATGTGTTTC
 148651 CTGCCTCCAG ATCCATTCTT CCTACCTCAA AGGAGGACCC TGTGTCCATG
 148701 ACAGGGGCAG GGGGAGAGTG TGGCATGATT CTGGCCTAG GGAAAGGGGA
 148751 GGGTGGTGGAG ACACACAGCT CACTAGTCCA GTGTGGATAA GCCAGAGTTC
 148801 ATCAAAGATA ACCCCAAACT CAGCGCCACA GCATTTCACT TCCCAAAGCC
 148851 TGAGTTGACG CTTATGGTCT CCTGTTCTCC CATGAGAGAG GTAGCCTTGG
 148901 CCCCCACAGC CTCTTCCCTC TCCTGTGTGA CCCATTGCC TCAGACTACA
 148951 AACTGCTGGA GGACAAGGAC TGCTGTTTG GTTTGCTTT GTGTAAATT
 149001 CTCCACAGTC TCCTCTGCA ATGTTTGATA ATATCTGCTA ATTGAATT
 149051 TAATTTACTC AACTCTAAGG TAGATTTTG AGAGCAAAAC AATTTTTAAA
 149101 AAAACATTAT TTATATTGA CACTTGAAGT TCTAAATAAG TGGGTTTTT
 149151 TTAACCTGGA ATTAAAAAAA TCTAATCCTC GTCTATTTA ATTGTCTAA
 149201 ATACTGAGTG ACTCTTGGTA TGCTATTAAAT TCCACATGCA GACTCTTCAT
 149251 GGGTGGTGGC TGATGGGGC TTCCCTCTCC ACTGCTTTGG AGGAAGGGCT
 149301 GCCCTGCACG GACCCCCAGGG TGTTGAAAG GGAAAGCACT CTCGGGGACT
 149351 GTCGGTGGGT TTGCTTGTCT CTTTGTGTTT AGCCTCAGAA TAAACATATG
 149401 TGCCCTTGC TTCAGCCTCT CAGGCCAAG GAAATGGGA AAAACAGTGG
 149451 AATCTCTGCA GTTTCTGGAA GACTGCTGGC TGAAAGCTTC CCGAGAGCCT
 149501 TCAGCCCCAC ACATGCCCTC CTGCTTCCAG AGGCAGGTGG GGTCTGTTGG
 149551 AGGTGGGGC AGTACACCA TACCTCTAAC GCAGAGGTCT GAGCCATCCA
 149601 TCAGCACCAAG CCTGACTTTT AGAGGCCATG GGAGCTGGGG TGTCTAATGT
 149651 CCGCTGCGCC TCTCCTCCGT CCCCCTCTAC AACAGGTGTG TGTGCACCCCT
 149701 ACCCCCTGCT GCTCCAGAGC TCCTGGAGGA TGTGATGGGG CCTTCACAGG
 149751 AGGCTGTCCA AGCCAACGCT TGAAACAATC TAAAAGGTTG CAGGTTTTAC
 149801 AGCACTCAAT CCTTCCCTCC TCCTCTCCCA CCTTGTGTTT GGTGATAATA
 149851 CTCCACAGA CAACAGTGTGAT GCCAGTGCTT GTGTCTGTGA GGCCTGGTA
 149901 ACTGGAAAAC AGTTGCCAT CATCTGGGG CATTCCATG AGGCCAGGCC
 149951 ATCCCCAGTC CACAGATGGG ACCCAGGCC AGAGAGGACA TGTGGCTTGC
 150001 CAGATGCGAGA AGGACGGGG TTCCAACCCC AGGGCACCTC TCTGGCATT
 150051 CCATTAAGGA AGCCATTCTC CTCCCTCATGA AATACATGGG ATGAGATGCT
 150101 GCCTTGGCCA ATGCCAGACC TAACTTCAT TTGGGATGAA GACAGAGAAC
 150151 GGGGAGGAAG GAGGCTCACT ACCCAAGGAG GTGAGCTGAT GGCATCCCCTG
 150201 TTCTTCCCTG GGATACACA GCTGGGATTG TAAAACCCAA GGAGATATT
 150251 TCAAGGCTGC CATTACCAATT TTCTGAAGGA CAAAATCATT CTTTTTATT
 150301 AATACATAAA TAACTTTTTT CTTGAGCAGG CCCAAAGAAA TGAAACACAG
 150351 ATGGTGATAA TGTTGAAAT GTTTACCTAT TTCCCTCTCTG AGGACATCAG
 150401 ATTAGCCTT TCTGTGGCG GAATGTGTAA TCTGCTGGAA GACAATATCA
 150451 TCCTTTGAT CTTAAATAC ATTTTTCTATA TCTTGCCTGC AAAAGCTGAT
 150501 TATTATCATG ACATTTTAA ACAATGACTG TTCACTGCGC AGAATGGGAA
 150551 AGGAAAGTTC AGCTGAACGT ATAGATAGAT AGATGTTGT CGGAGGCCAG
 150601 GCTATGGAA TGAATTTC TGTGTTCTT CTGCTGGTG ACATTGACA
 150651 TTAACCCCTT CCTCCCGGAC TCGGTCTTGT GCACTAATTG GAATCTGATG
 150701 CTCAGCTGTA GGAATTGGCT GCTCCCTCATT TACATGCGA GACCATTGAT
 150751 TAATGGCCCTC ATCCACTCCT TCCAAGGTCA CTGTGTTCCC TTTCTTCTG
 150801 GAAGTTAAAG AATGCTTGTAT TAAATGGCAG AAGCAGATTG AATGGGGAAA
 150851 TGTATGGGA AGGGCTTTGT TACACCAAGT GGGGCAATGC AGACTTGAGA
 150901 TGCTGACGAC TCCTTGTAG GTGGAGCCCA TCAGTGCAA TGACACAGGC
 150951 AGCTGAGAAG CGTTTGATTG GCCCCGCTGC CTTGGCTGGC TAACATGAAA
 151001 CTGACAATTG TAAGAGGCTC CTCTTCACAG CTCACTCGCA TCCCTTCAGG
 151051 GCTTCACAGC ATTCAAAGG AAAGGCATTG GATAAAGGAG AAAGCAGCAG
 151101 AAGTGGAAAG GACACAGATT TCAAACATTC TGTTTCACAT TGGCTACAGA
 151151 GTTTTGTGTTG TGCGGGGAAA GGGGTGAGTC TATGCATACC AGGTACCACC

151201 CACCTGTGTG CTCCAGAAGG CCCGTGATGT CCTGCCAGT TGCTGAAATC
 151251 TATAAAATGT CAGGCCAGGT AGCAGCAGGG TGAAAGGCTG GAAGCAGCCA
 151301 GCAAAGGAAA GGTAAACGTG CGCATGCTG TTGCAGTTCC ATGGCATGTG
 151351 GCATCTTGCA CAACCAGGCC ATTTCGAAC CGAGTTAAA TTCCCCGTCA
 151401 GCCACAGGGA GGGAAATAGAT AAATCATGA TGAATTGAAA TTATATTTCC
 151451 TTCTCTTAGC TTTCTTTTT TCTCTCTT TTTTTTTTC TTTCTCTATC
 151501 TCCCCACTCC AGGAAAAATG TTACAGAAAA TTATAGGTT TAAATTCCAC
 151551 CCAGTGCATT TAGCTCCATC CTTGCTGAGG GTCAGAGGAA TGGAATCTCA
 151601 CCAGTCATAT TTCATGAGGT CTTTCAGCAA GTTCCTGTAC TGTGTAGAGA
 151651 TCTGAAGGGC AAAAATTCAA AAAGTCAGCA GGGCACAAAT GGACCCAGAGG
 151701 TAGGAAGCAG ACAGGTTCC TGGGGCATCC TCTGGGTGCA CCAGGCTGT
 151751 GTGTGCTCCC AGCTCTTCTC AACTCAGAAC CATTGATGTC ACAGATAGTT
 151801 GGGGGCTCGT TCCTATGCTG GGGCAAAACC ATAGTGAAGA AAATTGCATG
 151851 CTTATGTGGT GTGTTACTTG TGCTTCAGGG TTTTTTGT TTGTTTGT
 151901 TGTTTTGT TTGTTTTTTA AGTACAACCT TGTATGATGT GCCTTGACCA
 151951 TTGACAAGTC TTCAGAAAAA AAGGAAAGAA AGAAAGCTTC ATACTATTGG
 152001 GTCCTAACCC AAAGTGCAG TGACCACCAA GGGCTGTTGG CCTCAGCAGG
 152051 GAAAGCTGT GTCTGGTCT TGAAGGGCTG GTAGGCAGCA GGCAGAGAAT
 152101 CAGCTGGTT TCCCCCTCCC TAAGCTGGAC TAATGCGTAA GCTACACTGA
 152151 AGAAAGGGGA GGGTACCAT CCCCCAAAG CAGGGCTCAC TAGCCAAGCTA
 152201 TGTAACCCAG AGCACATCAA AGCTAAAGCA AAAAGTAGAA GCCAAAGCTA
 152251 TCACAAGGCC TAAGTTGGCG TCCAGTCCG GCATGGCCCA CTTGTTGTCT
 152301 CAGGACGGCC AGCTTACACAG CCAGTGGCT TCATCTCCAC CCACCAAGGAG
 152351 GTTGGGCTA GGGTGTGTG ATGTGATGTC GTGAGTCAGT GAATGATGTG
 152401 CTGCAGAAAT CAGAAATACA GAAGGACCTT GAGGAGCTCC TCCAAGAGTC
 152451 CCTGGGCTCC TAATATAACC AGGACATTAT GCCCAAAAGA CTGATCCACA
 152501 TGGCTGAGGC TCTTTACAGG AAATACCTGC ATTGCTAAGT TACTATCCCC
 152551 AGAACGCCCT CCCCTGCCTT ACACGTAGCA AGTAGAACCTT GCTGATGACA
 152601 AGACACTACG AGAGCTGGGA ACCTAGAAGT ATTCCGGCGAC TGTCAAGACCT
 152651 CCAGGAGCCT CCCTGTGGGT TCAGAGGGAG CATGCACATG AACTTCTGGG
 152701 TGCTAGGCCA GGCTGGAGGC ATTCCCTTCC TGGCAAGGGA GCAGGAGGCC
 152751 AGCACAGGTT TGCAGAAGTC CATGTCCTCA GGCTGTGGTG GAGTGTGGGC
 152801 ACCAGGCCAG GAGTCTTGTG CATAATTCCA TGTCAACCAAC CCTTTGCCTT
 152851 TTGACCATTG ACTTCTCTTC TAAGACCTTA AGTATCATT TGCTCTTGAA
 152901 GCCTCCTTGA ATATGGTCTT GAGCTGACAT AAAACTTCCC TTGGGATTTT
 152951 CCTCTTTTC TCTCCATCTA GACATTTCCTC TTTTGAGGC CTCTTTCAAA
 153001 GACCCCTCTCT TGTCAGCTTC AGCTGGCTAA GTCTGCATGC CTGGGCCTTT
 153051 CTAGCAGGTA TTGAAAACG CAATCAATGT ATGTTAAGAA ATGTAATCAA
 153101 TGAGGTACAC ATATATATAT ATATGCTTAA AAAACAAATT TATTTTATCT
 153151 TTTGCTGTG TATCGGTAGC AGTTGCAATG TTTTACCTTC ACCCAGAAGT
 153201 TACTATGCCA GAAATGCTCT CATTCAATTCT TTTGGGTTCA GCGTTTCCCT
 153251 GCCTTATTATT TTCTTGGGA ATAAAAAATAC CTCTCAAGAT AATTGCCAG
 153301 CATTTCATCA GGATGAGTTT GTCCTTTTC TAAAGCAGGA AGGCTAGGAA
 153351 GTACCAAGAA GAGGAGGCTG GGTAGATGAA GGAATAAAAGA GGAGGAAATC
 153401 TAAACATGGG GAGATTACTG AATGTGCCAT GTGCACCTCT CCCTCTCCAC
 153451 TCTTCCTCAA CTCAACCACA AACCTCCCAA GGCAGGGGCC ACGTCTCCCT
 153501 CATCTCTCTA CCCTCCTCTC TTAGTATGGA GCCTGACACT CATGCCCTCA
 153551 TTTAACCAAC CCATGTTGAG TGAGGGCTAC TCTGCACCAA GTACTGGCT
 153601 GGGAGTGGGG CACCGAGTC ACAAGACAAG GCCCTGCCCT CAAGGCGATC
 153651 TCAGTTGTG AAGGAGATTG TCAACAGAGA AAACCTCTAAA ATGAAATGCC
 153701 ATGAGGAGAC CCCTGTGATA GGAGAGAATG CTTTAGGAGC CCACACATCT
 153751 TGGGGTCTCA GAAATTGCA GCGTGGCTG GTTGTGAGG GACCACCCCC
 153801 CACAGAAAAG AAAAAGAGCC TTCAAGCCCC AGAGGGTGAC TGGCAAACCTT
 153851 TGTGTGGTAT TCAGAACAGA CAAATTCTAG GTCAACAGAA TGTGGGTGGT
 153901 GGCTTATCAC AGAGCGGGGC AGCCATGTG ACTCGCGCTC GGCTGCCCTCA
 153951 TGAATTCCCT TCAAATGTTCC CAGCTAACG TGTGATTCCA TGGTGGAGAGA
 154001 AATGCCGCCT TTGAGGGCAG AGATATTTC CTTTCTTGAC AAATAGTTC
 154051 TATGTCCAGG CAGCCATCTG CCACCTCTGT GAGCTTATGA GATCCAGCGA
 154101 CTGCTGCTGA AGGTTAGAT TCAGGATTGA TGCCGAAGTT GTGTGTGGAG
 154151 GAAGGGGTAT CGCTGGTGCA AACCCACCAT TCAGAAAAAA TTAATCCTA
 154201 GCACCCCTCC AGCTGAAGCT TGTCCAGGAT TTCTTGCCA AGTTTCATT
 154251 TTAAAAGCTC TGCAACTTTA CTCAGATGTA GGTATTTTG CTTGTACTC
 154301 AGATTTCAC CAAACTGATA TATCATTAAA CCTTTGTTT TACAATACAT

154351 GCTTTATTGC AAAACCAATT TCAACAAAGT ATTGCAGATG CAATGTAATT
 154401 TTTATGTCCT AGTTGTTGTT GTTTTTTTT CTTTTTGTT TGCTAGGGTA
 154451 CCAAATGCTT TTGAGAAAAGT AGCGTGATAG TATCTATAAT ATGGTGGTT
 154501 TCTGGATAAG AGATTGCATT ATCCTCATGT AATATATTTG GGCAAGACTGT
 154551 GTCCATCATG GCTCAGCTAG ATAAATAAAAT TAAAACTCGC TGATTGAGGA
 154601 GGAAATGTGA TATTATATT GCTGAGAATG GTTGTGCTT CTCTTCTGAC
 154651 AGCTGCTGTG TTGCTGGAT CCCTCATCCC AACCCAACCTT AGTTGTTCC
 154701 ACTTCTTAGG AAATATAAAA ATGCTGTAAT GTTTCAGGA CTGTGAAAAC
 154751 ACTGCCTAG AGGCTGGCA GCCACTGTT CTCAAAGCC TCCATCCCC
 154801 CAACCTGCC CCCTCTCCT GATTAGTCAT GAGATGACCT AAGAGTCCTT
 154851 ATTGGACACC AACTCCGTGC TGGACATGGT GGCCTCTCAT GGGGATCAGT
 154901 GCCCTTGCTT GGGGCGTGCT GTGGCTCCCA GCCACAGACC CACTAGGAGG
 154951 TTTCTAAGAA GGTGGCTTGT TCCTTCTCTT CCATTTCTT CTCCAAGTTG
 155001 ACAGCCTGG GTGGGCAAGA GTCAGGGCTG GCCCCAAGGT CTAAGCTCAG
 155051 GCAGATATTG GTCCCCAGCT CCTTGGCCTG GGTCCAGGAG GGACTTGCCT
 155101 TGAGATAGCC CAAGATAAGA CAGCATAGGT CCCTATGTGA GGCCTCTG
 155151 CCCAGGTGTA GTGAGGTGCT ACTCCCAGGG ACAGGTTCCA TTGCTGGGG
 155201 GTGGGAGCAT CCACTCGAA GTTCATCTAG TCTGAATACA AGATCTTGG
 155251 AAAGCTTATA TGCAGTCTGT GTACACTCAG ATGTCATATG AAGACCGTGG
 155301 GAATTATGAT GATGATGATG ATGATGGTGA TGATGAAGAA CTACAGACTT
 155351 CAAGAGAAGG TGGCATGAAT GGGGCCCTTC AGGAAGGAGA AAAAATTCCA
 155401 TGTTCTGTT CTGCCTCTC ACTGCTGTG TTGTCGTTGG ATGTTAGAAGA
 155451 AGAGTGCAT AGAAAGATACA GTATGGACA CTGAGGGGTG GCCTGGGCTT
 155501 GGATCTGGAG TCACTCATCT GTTCATTCT CATTCATTTC ATTCACTTTT
 155551 GAGCCTGTAT GTGCACAGGC ATTGTTCTAG GCACTGATAT TGAATTCAAG
 155601 TTCATAATGC ACCATTGTA TAACCTCAA CAAGTGACTT CACTGCTGTG
 155651 CCTCAGTTGC TTCATAGAGT TGTTGGTAGG ACTCTGACTA AATGGGACAC
 155701 TGCACAGAGT GCGCCTGCAA TAAAGAACTG TCATCATCCT GTCTTTAGA
 155751 TGTAGTCTGA GAACAGCAGA GCTGTCCAT GTGTGTTCTC TCTGGCAGGA
 155801 ATAGCAACAG GACACTCCAC TCAGCTGCCT GGGGTCCCTG GAAGAGCAGC
 155851 CACTGGGCT GCCCAAGCAC AGCTCCTGCT TTCCGGATT CAAATCCTGG
 155901 CTCTACTACT TACAACCTGA GCGATCTTGG ACTGATTGCT TAACCTCTT
 155951 GAGCCTCAAT TTCTTCATCT ACACAGTACA TTTAACACGA GCACTTACCT
 156001 CATAAGGAAG TTGTGAGGAT TAAATGAGTT AATACATGTG CACCTCTCAG
 156051 AGCCTAGCAC TTAGTAAAGC ACTAGATGTT AGCTGTTGTT GGTGGTGGTG
 156101 TTTCTGGAGG AATTCCATT TAAATGAGAA GTGCCTGTGG AAATTGCCTG
 156151 CACAGAAATC TCTTAGCTCA GGAAAATTTC TCTGGCTGCA GATCCCTCTA
 156201 AGAATTCCCTG CATTGTTTC CTCTCATTGC TCAGTGAAAC ACAAAATACCT
 156251 TTGTCGCCCTT TAAAAAAATTC AGTTGTTTG TTTGGTACTT GAGAGATATG
 156301 AGCAAAAGGAT GATACAACAA GAATAGTCTA TATCTCTTA GACATGCTTC
 156351 TCCCCAGGTA ATCAGAAAGG CAAGAGTGA ACTCTGCCAT GCAGCTAGAG
 156401 TTTTTATATT TCCAATGGGA GTGAGGCCAG GCAGCCAGCT TCTCCTTCTC
 156451 CTGGCAAGGC TCTCTGCCA AGTTGGAGG GCTCCATCCT CTGTGCCCA
 156501 ACAGCCTGCT GTGTGGAAC CCACGGCAGG CCCAGATACT CTGTAGGTCT
 156551 ATCTCCCCAG CCAGGTGTGG GCTCCTGGGG GAAGAGGGAC CATACTTTT
 156601 GTATCTGCAT CTACAGTGC TGACAGGGAA GCATTAGGAG GCAGGCAGAC
 156651 AGCAGGACAA ATGGCTCCTT CTCTCTTGG CTGTGCCAC CTGGTGCCT
 156701 ATAGCTCATG CGCAATCTCG ATGCTCTCTT CCCTGGTGG AGAGGTACAG
 156751 CAAATCCGTT GCCAGACAAA CAGAAATATT CAATTCTTC GCCCAACTTG
 156801 AACAAATTCTG TTTCCTCTC AAATGCCTCA GGAGCCTTGG AGAAGTTCC
 156851 GTCCCTCCCC CCAGGCCCTCA GTTTCTCATC TCTGAGATGA GGCTGCTCTG
 156901 TACCCAGCAA AGTGTCCAC GGACCCCTGGC TTAGCCAAG TACAGACAGA
 156951 GGTGGTGGCT CTGCTCCACA CATGTGTT TGCTGTGTT TGTCCTGTT
 157001 GGCCTTTCT TGATGTTAAC ATTCTCTTT TTTCTTTTG TGAGACAGAC
 157051 TTTTGCTCTT GTGCCCCAGG CTAGAGTGA GTGGCATGAT CTCAGCTCAC
 157101 TGCAACCTCC CCCTCCTGGG TTCAAGCGAT TCTCTGCCT CAGCCTGCCA
 157151 AGTAGCTGGC ATTACAGGTG CCTGCCACCA TGCCCAGCTA ATTTTTTTT
 157201 TTTTAGTACA GACAGAGTT TGCCATGTT GCCAGGCTGA TCTTGAAC
 157251 CTGACCTCAG GTAATCCGCA CGCCTCTGCC TCCCAAAGTG CTGGGATTAC
 157301 AGGCATGAGC CACCGTGCCT GGCCAACATT CTCAAACCTT CCTTCGTAA
 157351 ACAGCAGGCC CTCAGAAGGC TTCCTGATG GAAGGGAAAC AGTGACCC
 157401 AGCCAATGCA GGTGGAACAA ATCAATGTGT GCAGACCCCTG CCTGCCTAAA
 157451 TCAATTCAAC CTGCCCTCTA GGGACTTGC CATAACTGGG AAAGAGCTTC

157501 CTTCTCCGAG TTACTTAGGC CCAGATCTAA CTCCCACCTT TTTGGTTTCC
 157551 TCTCCCTCCA TTCTTCTTCC TCTCCCAGTT CCCCTTCTT CCTCCCTCCC
 157601 ATCATGCCTC TCCCTCCCTCT GTCCCTGTCT CCCTCCACTC ACCCCATTCC
 157651 CCCTCCAGGG TGAAGAGTCT GGCTACCTGG GAACACCTGG GGTCTGGGTC
 157701 TTGTCCAGCA TGTACTAAGG GCTGGCATCA CCTGGCTCTC CCCCATTGGT
 157751 CTGCAGCCCT GATCTCCCCT CCTCTGTGAA TGCTCCAGCT CCCTGATGGA
 157801 TCTGATCTGA AAAGGTGCCG GTAGACTCTG CATTAAGTCA GCTGCTTGTG
 157851 GCACCAAGAT GACAGGTGTG ATGTTTCCCT GGGGATGCCG AACTGGGAAA
 157901 AGTACCATCT CCTGTTGTAA TGGAGTTAAAT GGCGTCCGC TCAGGACAGC
 157951 TGCACTTACA TCTGGTGTAA AACACCCTT ATTAAACTT TATGATGTGA
 158001 GAGGATGCCA GCTCGTCCAC TTGCAACATA TAAATTATGT CGATTGCTCA
 158051 TGCACTTTTT TTAACCCCTGA TTCTTCTGAA TTATGAAAGA TGAGACAAGAC
 158101 CAGTGGTGGT TCTCAGAGCT CCCCTGGGCC CTGTTGGCCG TGAGTGCTCG
 158151 GTGTGTGTGC AGATGGCTAA AAGGAAGCAG CAGGGCCGGA GCCCATAGCC
 158201 TCCCCCACCC ATTAGGGCAC AGTCTGGCT GAGCCCTCCA GCTCCTGAGG
 158251 GGCCCATCAC TCTGGGCTCA GTAGGTTAC CCTCAGGTGA CCTCCTCTGC
 158301 CTTCTTCTCT TGGGGAGATC CATAATGCAT GTCATAAAAGA GAATGGACCC
 158351 TACAGCTGGT CTGCGTGTAA AAGTCTCCCC TGATAGAAAT CATCTTGCTT
 158401 GCTGTGGTT TGCATCATGG GCTGTTTTT CCTTGGGCAT GGAGATGGAG
 158451 GAAAGACTAG TATTGTGTT TGGTGAGGAA CCTAAGTAAA GCTCTTAGCA
 158501 AAAAGAATTTC TTTCAAAGCC AGCTGGTAAG TGGCTATTCC AAAGCCACTT
 158551 GTACAGGGGC TGCCAACACA AAAGCCCTT CACATTCTG AAGCAAACCTT
 158601 GACCTAAACC CAGAAAGAGA AGCCTGGATT GTAACCTCTG CTAGACAAC
 158651 GACCACAGTG TGTCCCCAGT AAAGGCCTAG TGGGACCCCA AGAGCAGAGG
 158701 TCCTGGGAT CAATTCTGTA GATTCCCTTT GCTCAGGATG AAATCCAATT
 158751 TGCCCTCCAT TTCATTTTTT TAAAAAAATT CCTGCATTTG CCAATACTTA
 158801 AAAGACCGC AGGGAAAATG AATTGCACAG TGGTGTGGA AGGCAGAGGA
 158851 AAAGAGCGCA CCCAACAGGG AACACCCGCC ATCTCAGACA GAAGTCTGGG
 158901 AACTGCTGTG ATGGACCTTG AAACACGGGA GGGACGCAGA CCTCACCCCT
 158951 CACCTCGGAC CCCGCCTGGG GTGGTTGCTT GAGGAAGGCT CTCCCTGTAA
 159001 TCCGCCCTT CAGTCACTGT CTGTTTCCA GGTTTCCCC ACATGGAGAT
 159051 CACTCCTGGT TGCTTTATTG GGTCCCAAAC CACGGGCTTG TCTCCAGGCC
 159101 CCAACCCAG CCACAGCTCC TGCCCTTCAG AGGCCCGCGC GTGTTAGACT
 159151 ATTTGGCCAT GGTTTACCTT GGCCCTGCTA GCTTCAGCT GACAGTGTCA
 159201 TGCCAGCCTC CCTCTCACAA CCCCAAAGGG TTCTGTGTGG TGCCGTATGC
 159251 CACGGAACTC CACATGATGG GTTGGAGATG TCCCCCAAAC AAGGCACCAG
 159301 GCCCAGCGTT CTGAAGAGGG GTGTCGGGGT CATCTCAGTG CCAGGAATCC
 159351 ACCTGGCAAG CAGGTTCAAG GTGAGGCGCG AAGGGCAGT GCAGGGCGAG
 159401 GCCACCCCTAC CCCCCAGGCC TATGGTGTGC ACAGACGCAG GGGCACAGGG
 159451 GCACGTGGGG CGGATCGTTC TGTAGAACAC TCAGCGCTTG TTTGGGTCA
 159501 TCTTCAGGGG ATCAGAGGAG TGGGGCTGTT TGCAGAGATG CTCCCTTCCC
 159551 TTTCAACCCC TGCTATATA ATATATATAT ATATGCGCCT GAAGGCTACC
 159601 ACTAAAATGG AAATGTATC TGGGAGTTGT CAGAATTACC TCCCCAGTAT
 159651 AAATTAATGCA ATGCCATTA AACATCTGG TGAGAATTAG TCAGCTGATT
 159701 ACCTAAACAT TGGTGGCAGC TGTGGCTTCA AAAGAGAACT AGATTTGGGG
 159751 ACCTGAATTTC AAAACCCCAT CTTATCACCT TTGGGTGTCA AACTTCATG
 159801 TGTTTAAGAA GCATCTGGGG AGTTTGCGCA AAAGGGGAA AATTCTGAGC
 159851 GCCCCCCCCCCC CCCGCCTGGG CACCCCTGGG GATTCTGAAG CCCCACTGTC
 159901 TGACCTGGG AGCTGTCAGC GACCTCTCAA CCTCAGTCTT CTGTCTCGAG
 159951 AGTGGGGACG TTAGTGTGTT CCCAATGGTG TCATGGTGAG GACAGTGACA
 160001 GTGAGCTGAG CTCTGACAGA GGCAAGTGCC CACTGCTGCC GTTCACTTG
 160051 TTGTTACCGC CCTTTAACCTT CTGTTGTGCC TCTACTGTGA GCCCCGGGAG
 160101 CAGGGAACAC CTGACATCAT GTGCTCTGAG GGAAGCATT GAAAAGCCAA
 160151 GGGTGGCACC TGGAAAGGGAT GGGTTACAAA GAGCCATCCA CACACCTGCA
 160201 CTCTGGGCTG TGCCACTGGC AGCATACGGG GGCCCCCTG TTTCTCTCCT
 160251 TCAGACGGTG TGGGTGTGG GCCTGGTGTAT CCTCTGAGCC ACTGAGGACG
 160301 GTCCCTGGGC CTGTGGAAAA TAGAGGTGCA GGGAGAAGTC TAGAAGCCAT
 160351 GACTGTGACT ACAGAGTGA CAGAAACCAT TCGGCAGGGC AGCCCTGGGG
 160401 AGGGAAGCAG CATATGGTTT CAGCAGGGC AAATTAACGG AATGTTATCT
 160451 TCCTCCTACT TTATGATCAC TGTGTTACTGA TAGTGCTTAA TTAAAGTGT
 160501 GTTCTCAGCA TCTCAAGTGT GAGCAAAGAC TAAACCACGG CTACTTTCAT
 160551 GCTAAATGTG AAACATGGTG TACTCACACAA TGCAAACAAA GAGGAGAAAT
 160601 GACAATTTC CTCCTGAAGG TACCTGAAAT TAAAAATCT TGCCATCTGT

160651 TCCAAGAAAAG AAAAAAAAAG GGAGAGTTCT GCTGAAAAT TAGGAAATT
 160701 CCATCAGAAT GGTGGGATTA TGTAGCTTGC ACTAAAATGA CATCTTAGA
 160751 AATTATAATC CTAGGCTGGG TGCAGTGGTT CACACCTGTA ATCCCAGCAC
 160801 TTTGGGAGGC CAAGGCAGAC AGATCACTTG AGGTCAAGGAG TTCAAGACCA
 160851 GCCTGGCCAA CATGGCGAAA CCCTGTCTCT ACTAAAATA CAAAATTAG
 160901 TTGAATGTGG TGGCGGGCAC CTGTAGTCCC AGCTACTTGG GAGGCTGAGG
 160951 CAGGAGAACATC ACTTGAACCC AGGAGACGGA GGTTGCAGTG AGCTGAGATT
 161001 GCGCCACTGC ATTCCAGCCT GGGTGACAGA GTGAGACTCA GTCTAAAAAA
 161051 AAAAGAGAAG AAAAAGAAAT TATAATCCA CATACATGGT TGCTTATCAT
 161101 GTGTTTCGGT GAACTTTATG GAATTCGAGC TGCAGGAACC AGACCTACCA
 161151 TCTTATGAAG CGGGTCATTC TTTCTGATCT GCCAGCCAGG TGCTTCTCAA
 161201 AAGCACAGGA TTTGGAAATT TCTGGGAGAT GCATCAGGTA CTATTCTGAT
 161251 TCATCAGATA AAAGTTTGGC CTTAAGAAAA GATAGAATAG TAGAGTGGTT
 161301 TAAAGGGTGG ACTTGGGCAT CAGGTGACCT GGGCTGGACA CTTGGCCATA
 161351 TAGAGGCTTG GACAGGTGGT GCCACACTC TGTGCCCTGA CTCCCCGGC
 161401 TGTACACAG GCTGGTGGTG ACACCTAAC AAGAGGCTTG TCCCAGGGCT
 161451 TGGCACACAA GTCCCTCCTGT ATATCAGCAT CACTGCTCTT CCTACTGCCT
 161501 CTTCTGCTGC CCTGACATCA CAGCACATGG GTGGCCTCAG AGCATCGGCA
 161551 GGGGAGCCCA CGGTGAACAG TCTCCTGGGT CCTGAAGAGC TGAAAGATGT
 161601 ACTTTGTAGG AGCTGTCTTT TCTCTTCAGC CTACAGGAGC CACTTGTGGT
 161651 CTGAATACCC TAGACCTGTG CTCTCTTCCT CTGCCTCCAG AACCCCCCTCA
 161701 GCCACCAGCC CAGTCATGGA TGGTCAGAGT GCCTGAGACT GAGGTCCACA
 161751 GAGGGGACAG GATGAGTGGA GCCACAGAGC TGGGGAGGAC CGGGGAGAGG
 161801 CCTGGAACCT GGATCCACCA TCAGAAGAGG GAGCAGCGGT GTGCAGACAT
 161851 GTCCTCTTAG GGGCCTGTGC TGAAACAGGA ACCTTGCTG TAGACTTTGG
 161901 GAGGGGCTG GGCTGTGGGA ATACGGCTGC CTGAAAGAGG ACCGGCTCCT
 161951 GATTCCCACC TGCGGAGGGC CCCGGGAGGG AGGAGCCCCA GTGTGTTCCA
 162001 GGCAGGCCTCT CCTGATAGTT GGTTAGGAAC CACTCGAAAG AGAACACTTG
 162051 GAGGAGTGGG GGGAGTGCCA GTGTCAGCAA GTTGGGAGCA GAAGAGAGCC
 162101 CCACAGTGTG GAACAGGTAG CCAGCAGAAC CCACTAGTGG ACCAGAGCGT
 162151 GAGGGTTGT TGTGTAAAG ACAGAGTCCTC GCTCTGTTGC AGCACAGTGG
 162201 CATGGTTCGA TCTCGGCTCA CTGCAGCCTC CACCTCCTGG ATTCAAGCGA
 162251 TTCTCCTGCC TCAGCCTCCC AAGTAGCTGG GATTACAGGT GCCTGCCAGC
 162301 ACGCCCGGCT AATTGGTGTG TTTTTAGTAG AGACAGGGTT TCGCCATGTT
 162351 GGCCAGGCTG GTCTCCAAGT CCTGACCTCA AGTGATCTGC CTGCCTCGGC
 162401 CTCCCAAAGT GCTAGGATTA CAGGCAGTGAG CCACCGAGCC TGGCCCGAGA
 162451 GCCTGCAGGT TTTGGTGGGG CTCAAATAGC TACTGGCTGC CCCCAAATAG
 162501 GGGTGGGTG GAGAAGTCTC CTCAGATGAA ATGAAGGTCA TGACTGCCAT
 162551 CATTGGTATA CCCTACAATC AATCACTTGG GGAAATGGCT AGCCCTTGAG
 162601 TTTATAAAC ACATATAAAC TTGAGTATC CATTAAAAAG AACTGCCAGG
 162651 GGACACCGTGG TTTGCCTAGA ATGGCACCCA GCCTGCCATC TGCTCCTGTA
 162701 TGTAAATTAT CTGTGTTTA TAACCTTTCA TGGAAAGTTGT TAAAGAAGA
 162751 CTGTCTTTT TTTTCTCCT TTAAAGCTCA AGTATAAAATT CAAAACCTCAC
 162801 TTAAATAATC CCCAAGAATT TCTCTGTT AAATATTGCT GCAGCTCTGA
 162851 CAGGCAAATA CACAGGCCCTG GGGACCCGGG AGGGCCTGTG CACGTTTTGG
 162901 GGAAGAAAGC CCCCCGATTGA AGCCCCCTCCT GGCATACTCC CAGCTACCCA
 162951 TCCCAGTCTG CTCTCAGCTT GGTATCTTAG AGACTCCCAG GTGGGGCCAA
 163001 CTGGCTCCCA GGAGTGGCGC TTCACTCCCA GGTTCCACAA GGATCCTTGG
 163051 GAGTCCTTGA ACAGAGGGCC TGGGTGAGAC AGCATACCCC AGCACTGCAG
 163101 CCAGGTGTCA GGGCAGGCG AGGCCGATGGG GTGGCAGCCG GCCCATAGGT
 163151 GACCCAGACG AGGCCAGACC CACACTCCCT GGCGTGTGCT GCCCCGCAGC
 163201 AGTGATCTGA GGGAGCACTC CCCGGCCTGT GCTGCCCGC AGCAGTGATC
 163251 TGAGGGAGCA CTCCCCGGCC TGTGCTGCC CGCAGCAGTG ATCTGAGGG
 163301 GCACTCCTGC AGCCAGGCCA GTCCCTCACC TGGAAATCCC CATAGATGGA
 163351 CCCTCACCAAG TAAGGCTTTT TTAGCTGGAA GCTGCCCTC TGCTTCTCGA
 163401 TTTTGAAAG TAAATGGCAC CTCCCATGCC AAAAGAAGGC AGACTTGCTC
 163451 TTTCGCTTGA ATGTGAAAAC ACTGGGAGCA GAAGCAGGTC TGGATTGCTG
 163501 GGTCTTCAGT CCTTACCCCT CAAGAGGTGC TATGTGCTAG GTGCAGGGCT
 163551 TAATGTATTT TCACACATGC TGGCTACAAG GTGTGTGTTT CCATCTGC
 163601 CCAGCTTGGA GGCTGCCTCC ACCTTTCCAC AGGCTATGCA CCAAGGTCAG
 163651 TGGCGGAGT AGGAGACAGT GGGGGTTAAA CAGGGGCTAG GAGCAATCTG
 163701 GCATCTCGCC CTCCCTCCCTT GGCCCCAGAA ATGGAAGCTG GAAGGAGAGA
 163751 TGCCATGGGC TTAGTGGAGT GGGTGAGGGG CTGCTTGAGC CCTCGTGTCT

163801 GCTCATCTCA TTCCCTGTGC CATGGGCCA CAGCTAATAA GCACCACGTA
 163851 TCTGGGAAA GAGTGAGTTA CCCAAGGAC AGGCCATCC AGTCCCTGC
 163901 AGAAGCCCCT ACTTCACTTT CATTCCCTGCC TGGTCCCTGA GAGCCCACAG
 163951 GCTATACTG GGCTCAGAGA GGGGAAGCCA GGGCCAGCA GCTCAAGGCC
 164001 TCTGATTCAA AGCTGGCCAG GGCCTGGATA GAGCAGCACT GGGGGCACAC
 164051 GTTGGTCTAG CAAGAGAGAA AAAATGAAAA GACATAACAG ACCTTTTTG
 164101 ATCACCCCTGC ATGGAACAGA GTTAACTGAG TCTGAGCACA ACATGTCTGG
 164151 GCAAGAGAGA GAACAGAGGG CCAGTATGGT CCCCCAAGAG GCCCGGGCAC
 164201 TGCCAGGCAG GGTGGCTGTA GTTAAGGAGG GTGCTGGAGC TCCCAGGACT
 164251 GGCCTTCATT GGTCTGGGC CCTGGAGAAG CCAGGTGGCC CAACTGTGCT
 164301 CAGTGCCTCT AACATCATG AAATCATGAA CGGTCTGGAG GCGAATCCT
 164351 CCCATGGGA CTGTCGGCAA GAAGGTGCTC ACCTATCTGT CTGTCGTTAT
 164401 GTTTTTCTT TTCTTTCTT CCTTCCTTTC AGTTGTTTAG TCATTTAACAA
 164451 AACATTGGTT GAGTGCCTGC TTTGAGCCAG ACACTGTAAG GACTGGAAAT
 164501 ACAGCAGTCA CCAATCCAGA CGTGGCTCCT ACCCTCCATG TGCCATGGTG
 164551 GGTGAGCAAC TGCAGCCAG CACAAGTGCC CAGGAGGAAA AGAAGGGGGT
 164601 GTGTAGGAGC ATATAGGAGG AACCCCAAGT CCCAAATGG AGAGATAGGA
 164651 TGGGTGCCTA GGACCAAGCA ATGTCTAAC TGAAAGCACA CCACGGCTT
 164701 AAGCAAGAGA GTGAGGGGG GTATTCTGAA CTGAGAATTG CGTAGGTGAA
 164751 AGCCCAGGCC AGACAGAGCC CCATATGGGG TAGTGGTTT CCGCAGACAG
 164801 TGAAGTGTGG CTGGAATATG GTGCAAGGGG CAGAGATGGG ATGGGGCCTC
 164851 CTATGAGGCT GGAGGGTCCC TATGGGCAGT AATTGACCCA CTAGTGAGTG
 164901 AGTGAGTCTG TGCCCTCCTC AGAATATCGG GCTGAACCCA CAGACAGGCT
 164951 GGCCTGAGAG GAGCTGGATT TCTTGACTAG GAGGAGTCAG AGCACCACCA
 165001 AAGCACTCCA GGTCCAGACA CACCCAGGCT CAGATTGGAG AACATCATCT
 165051 AAAAACGAGC CACGTTAGGT AAAAGCTAG TATTTCCCT TTTCAGAGG
 165101 GATGGGCCTG AAGGGTTAAC CATTGCCCC GTTTTAAGA AACAGATGTC
 165151 CTAGCAGAAG GGTCTGGGG CCTCCCAACA CCATGAATGA GTTGCGCCAA
 165201 CACTAGAGAG TGTGACAATT TCAGTTCAAG CTTGGATGTT TAGAACATTG
 165251 GAGTTTTGC TTTCCAGAT GGGATCCTT AAATGTTGCA ATTCTTCTT
 165301 TAAGGCAAAT TAGAGGAATC GAGCTCCGCT TATCAGTTT TTGACCTGG
 165351 AAGAAATCTC AGATAGGAAT GATTGGCTAT TTTGGACCT TGAGTGAATT
 165401 TAAATTCCAC ATTTAGACTC CACCACCAT GTTGATTTTC TAATTAGAAT
 165451 GTGACACTTA CCTTATGAAC ACAAGGTGTC GTGCAGAAGA CATTCTCAA
 165501 AGGAGGTTGA GGATGCGCAG AAATAAAGGT GGTCCATATG GACAAGAAT
 165551 GATATTCTG CAGGTGTATT TAGAGGTAAC AATTCTGAA TAAATGGAAT
 165601 CTTCAAGAGT ATTCTTTAAA AATCACAGA TTTGACTTAT TGTGCTTTGC
 165651 TCACATTAT TAAACTTATT AAGATATACA GGATACCTGT TGTGCTTTG
 165701 AAGAAGGTAT GGTGTGTGTA CTTGGATACG ATGAAATGA AACAGATAGA
 165751 TCAGGTATAA AGCTAGAGA TGCTAATGGT GTTGGTCAG TTGTATAATG
 165801 CAGGCTTGC CACTGAGTGG TTTTGTTT GCTGACTCCA AAAGCCTGAT
 165851 TGAGCCTCTA TGACTCAGGA GAAGGGAGGA CATGAAATTG AGGGGTTCTG
 165901 TGACCCAGGG GGTCTACCA CAGATGCCCT CATATTTTA ATTCTCACTT
 165951 CTACCAAGGGC TCAAGATTAT GTACCACTGC GTGAGCATTG TTTAAAAACT
 166001 AAATAAAAGA ATGACACCAT GCTATATTAT ATTGGTTTG CTGAACATGC
 166051 TTTTATTGAC TCTGGTCAA AACGGATGAG GATTTTTTT TTTCCTTAAC
 166101 CTTGATGAAT AGTAGATAAA AAGCATCAAC ATCACATCTC AAGAAAAGCT
 166151 GCAGAAGAGA AGGCTCAATA AAAATGGATC TGACTCCATG CAAGCATAGC
 166201 TCTATTAGC ATCTTTCTT CTAATGACTT AATGGCCAGA TACCACAACT
 166251 ATACAATTAG CAACAAAGAG AAGTTATTGG GAGCTGAAAG GGATGCCTGT
 166301 GTCATCAATT TTCAGTCCTG TTGTCCTTC GTGTAACCTA ATAGAAGGAG
 166351 ACTGATAGCT AGGATCTTGT TATCCCAGTG CACGGACATG TAGGATTTAA
 166401 CCACTGAGTA GTTATCCTT AGCCAATTAG CCATTGGAAG GTGATTGCCA
 166451 CCTCAGATAA TCAGTTGAGA CCTTTCATG GAGACTCATC CTCACCTCTC
 166501 CTGGAGGATG CTGTCGGCC CTGCTCTGA CCTGCATGTC TGAGAATTAA
 166551 TTGACAGCTC AAATCCACAG AATGGGATTG CGCCATGTGA CAGGGGCTGT
 166601 CCCTACCAGC CCAGCTTCTC ACCATTGTGG GTACAATGCC AGCAACTCAC
 166651 TGGTTGATTG GCAGCATGGC CACCCATACC CATTCAAGAGG CATGAAAAGA
 166701 GCTCCACCAG TGAACATCCA CTTGTCCCAG GCCCTGCCAG CCTGGACTAA
 166751 AATCCATGCA AGAGAGAAGC TGGGCTTGCC AGGTAGCCAG TCACTTACTG
 166801 TGTGAAGCTA CCATGTGCGG AGCAGTGTCAG GCGACCCCTG CTGCACTGG
 166851 GCATGCTGT GGGAGGGAGT GGGCTCTGGT GGCAACATTG CTGGAGTGGG
 166901 GAAATCTGAG TTCTCTAGTC CTGACCTTGC CACCAGCCAT CTCTAGGGCC

166951 TCATGGAAGT GACTCAATT CCCTGGACTT TTCCGGGGTT CAGTAGCCCT
 167001 GTCTATCACT TGCTGCCTC AGGCCTCCAA GCAGGTGGCC CTCCCTGTC
 167051 CTGTGCTCCG TGCTGGTGA TTTCCACTT GCATCCCTCT GTCACTGTGA
 167101 TGGGTGAGGG CTGGAGGCAC AGTTTGCTTA TCTGCTCTAA ACGTTTCTCG
 167151 GCCACTGTAG CAGATACTGG CAGTGCTCTC ATTGTTCCCT ACACACTGAA
 167201 GGCATCTTT GCAACTCTCT GTCTCCCCTC GGGGTGCTAC CAGGATGCAG
 167251 GGGCATGTCT GGTCACTGCA CAGGGCAAGC CAGGAGTGCT GGGAGTTCAT
 167301 GTGTCCAGGA GTAGCCTTCA ACCAACAAATG AGCAAGAGTT GCTGGATAAG
 167351 TACCAGCTCT GCACCCCTCA GGTGCAGGAA GGCATCCTGC CCCATCTCCC
 167401 AGGTGCCTTC CTGGCAGGCT TAATCCCAGC TGCCCACAGT GATAACCTGC
 167451 TCATTAATTG GCCCGTCTT GGCTTCTTTC TCTCCCTCTT TTCATTTCCC
 167501 CATCTCCCTA CCAGTGCTTC CTAGGATATC ACTTCCAAT ATATTIGCAT
 167551 TCAATTCTCA CTCAGAGTCT GATTCAGAG GAACCATC AAGACTGCC
 167601 CAAGCCAGGC CCTGTGCTGT GCAGGCCCTG ACACCGGGAG TGTGTTCTTC
 167651 CTTTTCTGA CTATCCTCAG GAGCAGGGCT GGCCTGACC CAGACCCAGG
 167701 AGGCCAAGTG CAGGAGGCAG TAGTCCACTG TATCTGAGCC TCTAGGACAC
 167751 ATTCCCTCTC TGTGTGGTGC TGAGGTGGGC CCAGTGGAGG TGTGGAGAAG
 167801 TGGTGGGTGA GGGCTGGGG CGTGGTTCTC ATGTCCTGCC TGAAACGTGT
 167851 CTTCCACGCT GTGCTCTGGC TAGGCCCTCT GCAGTCTCCA CTGTCCTCTC
 167901 TTCCCCCTGC TTGGACATTG CCAGGCCCTC CAGAGGTTGT GTTCTGCCAG
 167951 TGGAAATGACT CAGGCCACTA CCTGTGCTC CCAGGGAGGT GACCCAGCTC
 168001 CATGGAAAAC TATTAGCCCT CCTTGGCACA TCCATCTGG GGAGGCGATA
 168051 AGCTAAGTCC AGTACCGACT GCTTCTCCCA GGAAGTTGAA TTTAAAGTCT
 168101 CAGCTCAAGC CTGACATTGC CATAAGCAGC TTGGTCGGCC AGCCAGATGT
 168151 AAGGGCTCAG TGCAGCCCCA CATTAGGCTG GCTGCTGAGA GCTCCCCATG
 168201 GGCCTGTGGA GCAGAAGCTG ACAGATGCTG AGCCTTCCAC AAGAAAGGGC
 168251 CTTGAAGTCC AAACCCCTGC CAAAAACAGG CTTGGTGAGG CATCTTACGG
 168301 GCACCCCTGA GCTGCCCAACA GCCACCCAAA TGATGTGTCT TGTTCCTGTC
 168351 AAGACACCTT GTCAGCGGCC CACCTTGCCCC GCTGAGGCC TCTCCCTCCA
 168401 CAGCGCCCAAG AAATTATTCA GTGAATGGGT GTAGCCCCGG GTTCCAGAGC
 168451 TCTCTCTGT ACTACTCGCC CAGCTGGACC TGCCATTCTT CCACAGCCAG
 168501 GGCTTGTGCT CCAGGGTGA CTTCCCTTTC CTTCCCTCCCG ACCCCAGCAT
 168551 GTCCCCCACCC CCAAGGGCTC TGCTCACTAA GAACTGTGGG TCTGCAGCAT
 168601 GACTGAACAG ATCCTCTATG CTTACAGCTA ACACAGATCA ACGBTCTGACC
 168651 CCTCCCAGGG TGTCCACGCC CTGAATAAAA CAATGCCAAC TACTGAGGAA
 168701 GTGAATTCTT AATGAAGGC A TTTCTAGCAC TGATGGTGCC AGGTGTGGGG
 168751 AAGAGGGTGG GGGTGGCTA AGTACATGAA AACCCCGTAC CTGCCCCCTT
 168801 CGGCAAAGCC TTCCCAGTGG TGTGGCTG TCTCCCATGT GCATCTGGAG
 168851 CCTGCACGCT GTCAGGCACA GCCATCTTG GAGAATGACC CTCTCTTTGC
 168901 CCTCATAGAT ATTGGTACCA GAGCTTGAG CACCTCTTAT TCTAAGCCCT
 168951 GTTTTAGACG AAGGGAGAGA TCAGCCCCAA GAGGGAAAGGG ACTCTCCAG
 169001 TTACCCCCAC GAGCTGGCAC TTGAAGACCT CTGAAGCAGG AGGGATGAAG
 169051 GCAAGGCCTT TTCTTAAGTT AGCTAGCAAC CTGGTCCCTC AGAGCTGTTT
 169101 CTTTTTAGCG GTAGAAAGGA CAGCCAGGCC CCCACCTGAC AACAAACAGAA
 169151 TGAAAAATTG AATGTGTGGT ATCAATCGCA GTCCCCACCCA GAGGCCCTCAA
 169201 ATAGCTTTG TCCTGATTGA AGGTAGAAAT TCATGGCTCC AGGAGTAACC
 169251 AAATATTGGC AAGTTGGGC CCGGTATGT CAAAAGGCTT CTAAAAAGAA
 169301 TGTTTTATT AAACTCAATA AATAATAGAT TCAAAGGTCT CATAGAGTT
 169351 TAGAAACATA AAAAGGAAGA TAGGCCTAGA CACTCTTGTG CTATTCCCGT
 169401 TGTCCACCCCT GTCCACCCCA CCCCACCTC AGGTGCCCA AACTGCTTAG
 169451 ATGTTAGCAA GGGCTGGGAG AAAATCCCTA CAGCCACATCA CTTCATCCCA
 169501 AGCTATTAGG AACACACTT GGCCATTCT CTGTCCAAGT TTCTCTTAG
 169551 ACAGTGTAC AATAAGTAGA ATAAGAGCAA GACAATGTGA CTTCACAGGT
 169601 ACATGCTTTA TTACCTACAC TGACTTCCAC CAAAGTGGGC AGGAGGAATC
 169651 AAAGGCCGT GAGGTTCCAG AAGATCTTGA GCATCCGCGC TCATCCCAGC
 169701 CCTTTTTTAT ATAATGCAAG TTGTTTCTCA CATAACCCCA TTCTTAGCCT
 169751 GCAGCCAGAT ACCTCCCTAA CTCCTCCCTA GACCTCCCC AAAGGCAGAG
 169801 CTAACTAGAT CAGTTCTGCT CATCCTCAA ATCAAATTAA TATCTTGAT
 169851 GTGGGTTTTC CTCATTATAA TGTCAATTCC ATGAGGTGTG AGCCCCATTG
 169901 TCAGGGCAAT CCGGATGTG AATTGCACT TCAGCCTCA CTGAAATCTT
 169951 TACTTAGTCA AACTCCCAC GTGTTCCCTA CTCGCCCCAC ACTTGTGATC
 170001 ATGTGAATGT AAAGGTTCTG CAGTTCCAC CAGATCCACC TCCTTCCTCC
 170051 ACACCCTGTA TCTATTCTC TACATCTAA CGACATGTAC ATGTGTCCCT

170101 AAATTCAGGG ACTTCATATA TTCTTTCTA TTAACAACCC CTAATATAAT
 170151 TCCTACCACCA AATATCATAT ATTCTCCTTC CAACCAATAC CATCTGCTGC
 170201 ATGGATATAT CCTGGAAAGG GTTTGAAAT ACCCACACCA AAAAACCTCA
 170251 CTAGCATTCT GGAAGAACAA ATTAAATCAA TTCATGACTT CTTGCCTGTA
 170301 AGCACTGAAT GCCAGAAGAT AATGGAGCAG TATTTGGAAT GTTCAAGGA
 170351 CAAAAGATTA TGATCCAAGA ATTTGTCTC TGCCTAGATG TTGTTCATGT
 170401 CGAAGGCCAA AGAAAGGCAT TCTCAGATAT GCAAGAGTTC AGATATACAC
 170451 CATCTTCCTG CTTTTCTTA TTTTTAAAAA GAAGTACTTC AAGTCATGCT
 170501 CCACCTAATC GATAAAATGAA TCAAAATATT GTATCATAAA AGATGAGCC
 170551 ATGAGATTC AAACAAGTCA ATTAAAGAAT TAAGTATATA TAATTAGAGT
 170601 AATACGTAC AATTCACTAG CTATAAATTC CAACCAAAGA AAGAAAAGTT
 170651 GGCCCACAAA GCTGAAGACA ATAATAATAA TAAAAGGAAA AGGACAAAAG
 170701 GAGAAAGCTC AATAACATAA ATAATGAAAA AATGTTAAA AGAAAGTGA
 170751 GAGAACAACT TCTCAATGAC AATGCAAAGA CTCCAAACTG ACTAAAAAAA
 170801 AAAACCATTT ACTGGCCAAG TGCAGTGGCT CATGCCTGTA ATCCAGCAC
 170851 TTTGGGAGGC TGAGGTGAGT GGATCACCTG AGGTCAAGGAG TTCAAGACCA
 170901 GCCTGGCCA TATGGCGAAA CCCCGTCTCT ACTAAAAATA CAAAAAATTA
 170951 ACCGGGTGTG GTGGCGAGCA ACTGTAATCC CAGCTGCTCG GGAGGTTGAG
 171001 GCAGGAGAAT CACTGAGCC CAGTAGGCGG AGGTTGCACT GAGCCAAGAT
 171051 TGCACCATTG CACTCCAGCC TGGGCAACAG GGTGAGACTC TATCTCAAA
 171101 AAAAAGAAAAA AAAAAGAACAA CCTATTTACT ATATACTATA TACAGTTTG
 171151 ATTTAATGTT GGCTACTAA TATTCTTCT TCAAGCTCAA ATCTTAGAGA
 171201 TTAAATGAGC AATCTGTGT TCTGATTCCA TATTACCTTC TCAAGCTACC
 171251 TCAACCATGC CCAAAGTTG AAATAGTGCC CAAGTGCCTG GACTGTCACT
 171301 GACGGCTCCT ACTTAGACCT CTGCTCTGAT TTCCAGGCC ATATGTCAA
 171351 CTGCCTACTT GACAAAGGC CTTGAGTGCC TCACCGGCCA CTAAAACTCA
 171401 GAATGTCAA ATCTAAACTC ATGGCTTTC CCCATCACTA ACCTTCTGC
 171451 CAGAAAACA AATAAACAAAC AACCCAAAAA ACCACCATTC TCCAACCAGT
 171501 GCTTCTATCT CAGTAATTGG TACCAACCTT CATCCATCTT CCTAAGCCAT
 171551 AGATCTTGA GCCATCTTG TCACCTCTT CTCCTGTAGC AACTCAATCC
 171601 AATCCATCAT TAATATTTT GGCTCTAAAT ATTACACACA TCTCAAATCC
 171651 ATTCACCTCT CTCTATCTCC AATACCACCA CTCTAATTCA AAATACAGTT
 171701 TTTTCTCAAC AAGACTCTCA TAATCACATC CTAACCAGTC TCCCTGCATT
 171751 CTTTCTTGCT CCCCTGGAAT CTGTTTCCA CCCAAATACC AGAGTGATTT
 171801 CTTTCAAAA CACAATTGGT GATTATGTCA ATCAGTGGTG TGCTGATAAA
 171851 TGTTTAACAA CCGGCTCTCG GTGGGAAAAG TCCTAATTAA TAGCATTG
 171901 CAATTTCCGT AGTGTAAATA CTAACTACCGT GGATGACTTC AGTTGACCAG
 171951 TCCAGTGATG TCATGGAACA CAGAGTCGGG AAGAGATAAG AATCATCTGC
 172001 CCTTATAAAAT AGTAGTCTCC AGCATATCAT TGCTTGTAAA ACTTCTGCTT
 172051 AAAACTGTTT AATAACTTCT CAATGCTTCT AGAATAAAGG CTCAAATTCT
 172101 CAGCAGGATC CAAAAGATCC TGCAATGGCT GACCCTATTA ACCTTTCTAG
 172151 CCTCAACTCA CACCATGTTC TCTTTGTCT CCATGCCAA CCCCACAAAC
 172201 TGACAAACACA CTCCCTCCCTG CCACAGGTCA TCCTCCATCT GGAGCACTCC
 172251 CACTGCCTCC CCCCTAACCA GTTTAGTTAA CAAACACATC TTTTGGAGCT
 172301 GAGCCCCAAGT GTCCCCCTCT TAGGAAAGCC TTTCTGAGC CAATTCCACC
 172351 AAACTAAATT GTCTTCTCCAT TGTAACATT TGTAAGCACTT AGCTCATAT
 172401 GCCATATACC ATAAAACATA GGCCACCATTT GTAATTTCAT ATATACTTAT
 172451 GAAAATTTG GCTGATGTCT GTCTTTATA CTATACTTAG AATAAATACT
 172501 ATACTTAGAA TACCCCTCAGA AGAGGGTAAG CATTGTATTT TTTTGTGATT
 172551 ACCACTGTAT TCTCTAGTGC CTAACACTTG GCATGTGGGA AGTATTAATA
 172601 CATTCTGTAT GCATGAGAGA ATGAAAAGAC ACACACTTAA AGCCAAATGG
 172651 CATAAGGAGA TTAAAGGAAA AAGAGTGGGC GAAGTTCTGT TTGTCAAAAA
 172701 CAAAAACAGA AAGCAAGGGT AGCAATTAG AGGGGAAGTA GAATTCAAGG
 172751 CAACAAACACT AAATGAGAAA AAGGGATGCC ATTTTATGGT GATAAAATCC
 172801 ATGAAGAAGA TGCTGTGGTC ATGGAGCTT ATGTACCAA TAACACAATA
 172851 TCAGTGATTA CTGTTAGGAA TAAAAGGAAA AATAGGAGCA CAATCGTAGT
 172901 GTGAGAGTTT AACATACCAAG TAGAACTGAA CAGAAAGGCC AGGAGCAAAC
 172951 CTTAGAACAT AGTGCTAACCC TAACACAGCA TTTCAAAACT GTGAGAAAAAA
 173001 GGATCATCAG TTATTTCAA ATGGTACTGG GCCAAATGAT TAAGTATTTG
 173051 TTTTAATAAG GTGGATGACT TCATATTGCA GTTGGATATG GTGGCTCTTC
 173101 TAAAGCACTT GTCCAAAAC GCTCTTACAC GACATTAATA AACATAACAA
 173151 GAAAAGGATT CTGGAGTCAA ATACATCTGC AAAACACCAT GGTAAAGCAA
 173201 GTTAAGCAGA TATTTTATT GCAGGACTTT TAACCATCTT TGGTGCTACT

173251 GTGCATGCTA CAATCCAAG AGGGAACTAT AGCACATGCT ATTCCCAGAA
 173301 TTACTTGAGT ATTTGTGAG ACTGGTGTGTT CATGTTCTGC AGAAATCACT
 173351 TGGGAAATGG TGGCTAAAAA AGTTAAATAA AACACATAAA ATCATAAAAG
 173401 ACCTCAAATA AATATGAGCA GATATTTTG TACTTTACT AAGGTGAGTG
 173451 GGGCTTCCT AAACCACATA AAAAAGGAAG ATACAATTAG AGACATGGTT
 173501 GATATATTG ATGACATAAA ATCTTTAACG TTCTGTATAT CATAAGGCAA
 173551 ATGAAAACG GGGGAAAAT AGTTGGAGTT ATGAATGACT TTACTATAGA
 173601 AAGAGCTCTT AGTAATCAAT AAAAAGATG ACCATCCACA TAGAAAAGTT
 173651 TGTGAAGAAC ATGAACAGAG GGCACACACA CACACAGACA TTCACATCCA
 173701 TCCACCAAT ACACATCATT ATTAAATATT AGATTCTGAA CCTTCCTAAT
 173751 AATCAAATA AGGCAAATTA AACAGTTAA CAATATATT TTGCCATGA
 173801 AATCAGCAAT TTTAATGAT AAAATTCACT TTTAGCAAGG ATAGAGTGAA
 173851 AGGGGACTCT CAAATGTAGC CAATGAAAAT ATAAAATGGC ACCAACTCTG
 173901 TGGCCAGTAA TTTGGCAGTA CTTATTTATT AAGTCTCTT TTAAACATGC
 173951 TTTTGATTCA GTAATTCCAC TTCAGGCAAT TTATCACAAG GAAAAAAATC
 174001 AGAGATTGCC TAAAGATTTA TGTTCAAGGG TGTTTACTGT AGCTTTGTTT
 174051 GTCAAAGCAG AAGTTTGGG AGCAGCCCAA ATGTCAGCA GTGACTGGTT
 174101 AAAGGAAATA TGGTGTGCC CATATGATGA GATATTATTC AGTCATTAAA
 174151 AATTATGACT TGTGAAATA GTCACAAAAA GAATGTTAAG TTTAAAAGCA
 174201 TGATATAAA CTACTCCAG ATTCAAATT TATAAAGTAC ATATGTATAT
 174251 TTATGTAATC GGAAAAGACT AAGGTGAAAAT ATAGTAAAAT GTGGAGTTAT
 174301 TCTCTCTGAA AAACATTCCA TTTATTTAT AACATTCCCC CACAGCTCCT
 174351 CATCTAATCC ATCAAACCAA GTCTTATCAA CTCTACTTCC AAAGCGCACC
 174401 TTGAGTCTCG TCTGCTCTC TCATCACCAC TACTATGCC TAGTCAAAGC
 174451 CACCATCATC TTTCATCTT AGAAAATTAG AAGCCTCCCA TTGGTCTCCC
 174501 TCCCTCCCT TTTGCCCGT TGCAGACCAA TCTCCATGCA ATAGCCATAG
 174551 TAATCTGTT TCAATGAAA TCAGATTGTA TTACCTCTG CTTAAAACCC
 174601 TCCAGGGCTT TCCCCTACACA CCTTGAAAAAA AAATCTTAAG CTTTTCCCTT
 174651 TGCCATGGCT CGGAGGCCCG TGGAATCCCC CTGCTGCCCTC CCTATCTGAC
 174701 CTCATCTCCT GCCACGCTCC CTTCCCGCCT TGCTTCAGCC TTTCTAGCCT
 174751 CCCCTCTGG CCCAGACACC TGCACGGCC TTGACACCAAG CTCTTCCCTC
 174801 TGCCTGCCGT GCTTCCCCCA GCTCTTACA GAGCTGACTT CTCCGTAGGT
 174851 CTCAGCTAA ATCCACCTCC TCCAAGAGGG CTCCTGATCA CCCAGAGTTG
 174901 CCACCCGTGAC TTTACCTATC GAATCAATGT ATTTAATTG TCTGCACTCA
 174951 CGACCACCTG ATTTTTTTTC TTAACTGACT CCTTTCTGTA TTGTCTAAGC
 175001 TTTGCCATG AGAATATAAA TTCCATTGCA GGCTGCTATA TTCACTTAGA
 175051 ACACTGCCTG GCACCTAGTA GGCATAAAAT GCTTGCACACA TGAATGAAAT
 175101 AGAAATCAA CCAAAACAT TTCAATTGAAA CTGAAAAAGG TAAATCATGC
 175151 CAAACAGCTT GACTTACTAA CAGTGCTCAA AAAAATCAA TACTTTGGAA
 175201 AATCTCCAGG CTTGAAGGGG TGCCCTACCC TTGCGTGGGT ACCCCGTTGC
 175251 CAGTTAGTGG GTAATCCTTC CCCCCGCTAA CCCACACAGAC CAGAAAATGA
 175301 CACTAATATG GACAGGCAGG TGGAATGGAT TTGCACTG TGCTCTACTT
 175351 CAAAAACAAA TAGGACTATT AAGCTTTGCG AGGTCTCTGG GGAACCTGTC
 175401 CAGGTTTGTG TGAATTCCAA TGAGCTCTAG TTTTAAACAT GCAGGATTTC
 175451 AGCTCTGGCT TTTAGTTCAC TGAAGAAGG AACAGCTTAG ATTTCTTTG
 175501 CCTTGCAACT CCTGAAATTCT CTCCTTCTT CTTTGACAGC CTGAGGAGTC
 175551 AGGGGCGAG AGAATAGAGG AGCAGATGC CTTTTAATGA GAAAGAACCC
 175601 AAGAACGCTT CTGCACTCTC TTGTAAGGC ATTTCTTAGT ACTGCTTAAA
 175651 AGATCTGGGC CATGCCACAC ATAGCAAGGC ACAGAACAT ATGAAAAATT
 175701 GCCAGATTAA GTGCTGTGG CTTGGGGTGT ACTGCAAGGA TCTCTAAAGA
 175751 TGGAGATTG TTATGTTGCT GTGGATAAAAT TTGAATCAAG TGTAATCCAA
 175801 TGCTGCTGTG TGAAAATCAG TCAGTTACCA AGTGAAGTGGG CCTCGCCAGC
 175851 CACCCACCCA CCCAGCATCC TATCTTCCAT AGGTTTCCAC TTGACACTGG
 175901 AATATAAGAT TTGTAAGGAG CNAGATTCT GCCTATTGTT TTTACCCACCA
 175951 AATCCCTGGT GCCTAGAACCA GCACATGCAG ATAGCAGATG CCCAATAAAAT
 176001 AATTGTTGAA TAAGTTAAAG GAGAAGTAAT ATTTCCCCA TTTACTGAGC
 176051 ACTCACTGTG TGCCCTCACCT GGCTCAAGTC TCATAGCAGC TCGAACTCTT
 176101 AATTCTCACA CCACCCCCAC AAGGTAGGTT TGGCAGAAGG GAGCCTGAGA
 176151 AATTAGGTAC TACAAATCTC TCGTGCAGTG CATGTCTATT TGAAAGTTTA
 176201 TTTCTTGTG AGGTTATTGT CTGATGTTCA TGGCATTGGG TAGATATTGT
 176251 GGGAGAGGCA GAAATGTCAT TATGAAGAGA ATTTCTCTCT ATTAGCTAAT
 176301 GTTTAGAGAG GCATTGTGAC ATACAAAAAG ACCATTGGTC CTGGACTTGT
 176351 CACATCTGGA TTCCAAATTACCTCCTCA CTAACCTGTG TGAACCTCAA

176401 CAAATCACAA CCTCTCTGAG CCTCTGTTT CTAATCTATT TTTTTAAAG
 176451 ATAATGAAAC CAGCTTGCC CTGCTGAAT GGAGGTATAG TGAAGTGC
 176501 TGACAGAAC GATGTGATTG ACAACTTATA CTTACACCCCT CTGCTTACT
 176551 GAATTGTTAT TTAACCTCTCA ACTGAGGTAG GTCCCATCAGT GTTGGCTCA
 176601 GTTCATGGGG ATTTGTGTCT ACCCTTGGGT ACTTGGATT TGCAATAA
 176651 TGAGTTCTC TATATAAAAT GTTCCAATG TATCTTGCAC TTAATAAATG
 176701 CTAGTATCAC TATTGTAATT ATTAATGAAA AAAACCCCAA GGATTCA
 176751 TGGACCCCTGA ATACAATTTC TACCTAGACC CAGGTGCCA ATCGTTTG
 176801 TTTTGTGTGG TATTCAAGGTT ATTTACTGTAT GTGTAACAAA TTACCCCCAA
 176851 ACCCTAGCAG CTTAAAACAA CTACCATTGT ATTTAGTTC ATGATTGTGT
 176901 GAATAAGGAA TTAAGACAGG GTCAGCTGG GTGATTTC TGCTTCAGGT
 176951 GGCATTGACT GGGGTTACTC AGTAGTGTCA GTAGCATTCA GCTGCTGGCT
 177001 GGGCTATAAT TGAGGGCCTT ATCCAGTGT ACCCACACAT CTAGCATCTT
 177051 GACAGGGTCA GCTGGAAGGC TGGGCTTAGC TATACTCCTC CACCCCTGT
 177101 AGTCTCAGAG TATCTCTTCC CGGTCTCTCC TGCAAGGGTAG TCAGATCTCC
 177151 TACATGGTGG CTCAGGGTC TAAGAGTGTAG TGTCCAAGA CATTCA
 177201 GAAGCTGCAA GCCTCTTAG CTTCAAGAAGT CAAGTCTTGG CTGTTCCATT
 177251 CTATTGTTCA AGCAAGTTAC TAAGGCCACA CCTAATTGAGA GAGGAGAAAA
 177301 ATTGTACTCT ACGTCAGA GGAAGGGAGCA TCAGAGAATC TGTGCCC
 177351 TTTAATCTAC CACAGGTGGT AACACAGTTC TCTTGGTAGT GGCTGCCTGG
 177401 AGTGATGTGA GAGGAAATA AGAAGGCCAC ATCTGGGTTCA AGTGGGAAAG
 177451 TGCCAGATGT TTACCACTGT CTGCTGGGG AATGGGGCC TGGGGGCC
 177501 ATATTGCAA CCTTGACTT AGAAATTCTC CCCTCATGAT GCACCCCTC
 177551 AGGTCTCTCC TATTTCTTC CTATCAACAT GTATGTGCTG TTTTTCCAT
 177601 CAAAAGTCCA TTCTGGTTGC ATTTAATTAT TGTCACCAG GAAGTTTAAT
 177651 AGAACACTT ATTGTTCAACC ACCACTTTCAG AGGAATGAAG GGGAAATTCT
 177701 TGTTTGATA AGGTGTCCTT TTCCCTCTAAG CCTCCTCTGC GGGGCCTTTA
 177751 CTGAAGACTC TGCTGACCCCC CCTGTATAGT TTTGCCAAGT TAGAGTTAAG
 177801 CACAGCCAGC TAAGCATCTC AATATCCAGT TATGGGTGCA TTCTTCAAAA
 177851 AACAGTCAGT GAATATCACC AGTGTGTTGT GTCTAAGGTA CATCAGGAAT
 177901 TTGAGGAAGG GAAAGAGGGG GGGAAAGAGCA AGCCAATCTG TTATTTGG
 177951 AAGTCATATT TTACCCCTT GTTCTGTGGA GTAAGATTTT GGTATTAATT
 178001 TGGCTAAAAA GACACGGGTG GTGCCGAGGG ATGCCTGAAC AGTTTTTCC
 178051 CCACTCTCT TGCTAGTTCA TGGGTGCATC TGTGACCAAA CTTGTAAGGT
 178101 CTCTGGCTTG GCTATTCTC TCCCAAGTCC TGCTGAGATG ATAGTGTGATG
 178151 ATTGGAGACT GTATTCAATT CCATGGCAAC AAACATCACT GTCCTAGAGC
 178201 CACTCCTCAA ACCCTTGCA AATACCACTT TTTCATTAAC CCTAACCTCT
 178251 GAGACATGT GAAATCCATG CAGAAGCAGC AAGACCTACC CCACAGGGC
 178301 ACTCAAACGT GAGCAAGACT AGGCTTCAGG GGAGCAGCAA GCTCCAGGTA
 178351 CACATGAACA GCAGGTGAAA CAAAGACAAT TAACTAATT GTTCTTCTA
 178401 CAATTGTTCTC CTCTGTTGCA AAGTTGCCC CTAGTGTGAA AGTCTCACTT
 178451 TCAACTTACA TTCCACACCC AAGCAGCTTT CTATCTAGAG TTTGAAAATT
 178501 GCTTGGACAA GGAAAAATTG CACCTCACAT TTTCAGTGT CTTGTATAT
 178551 CTTATGGCTG TCCAATCTT CTCAAGTACT AATTATGAGC ATTATTTTAC
 178601 AGCTCACGTC TCAAATACTC ATAGTATGCA GTGTGTGTCT ATTACCAATG
 178651 ATTTGCCAT TAATCAATAG AGATGCGAAA ACAAGAATAT GTGAACCTCTG
 178701 GCACAGACCC AATTAACCTC AAATAGGAGA GAAGGGACTT TATCCTCTAA
 178751 TTGAGTTACA TCTTGGCTG GAGTGAGCTG ATGGATTCTG GGAGGTCACT
 178801 GAGGGATGGT GGCTCATGC TGAAGGTGGA TGCTCACGG GGAATGGATT
 178851 CCTAAACTTA CCGTGTCTG TTCTTCTTGT AGACAACCCA GGGAGTCCAG
 178901 CAACCCATAG TACGGTGCAT CCAAGAGTCC AGAAACCCAT AGTACAGGG
 178951 ATCCAAATGA CCTGATAAGT CTTTAGGAGC CTGGAGATTC ACAATCAAGA
 179001 GGACAGGCCT ACTTTGAGG AAGGCAGGTT CTGGAGGGAG AGTGAGCTTA
 179051 AAGTCAGCCC CCATTCCCTGA TATCTTCTCT TGACTTGGCT GTTGTCCAG
 179101 CTTATGTGGT TTCTTCCCTT CATCCCTGGG GTGGGGAGT CACGAGCATA
 179151 GACCTGGTAC CAGGCACTCC TGGGGTAGAA TCCTCATTCA GCCTGTGTTC
 179201 CCACCAAGAA ATAGAAATA GGTGTATTA TTTCTACCTC CCTTGTGAGA
 179251 TTGTTGTGGA GATGATCATT TCCAGAGGGC ACTTTAAGCA GAACCTGGCA
 179301 TGTGGTAAGA GCTCAGGCCA CATCACTGCC ATTGCCATCG TCATCCTCAG
 179351 GCTCATTGA ATTAAAGATG AAGGGGGCAG CTCCCTGGCA TTCATGATTC
 179401 CATGGGCTGT GGGCGCTCTA CGAGCAGATT TCTGCTGATG TGAGCCAACG
 179451 AGGGGCAAAT CAGTTAACCACT ACATCTGGGA CCCAGGTTAG GGCCTCCGG
 179501 AGAAGAGGCTTTCACAGGGT AATGCTCTAT GGAAACTTTA GTGTTGGTT

179551 TCTTCCCCCTG ATTTATGCTA TCCTTAGGAT CCCACTACTA GGGCCAGGAA
179601 GAAATAACTG AAGTTCCTGC ATGTGAATAA GAAGGCAGTC ACTTATTCTC
179651 GGAAACTACA GCTGAGACTT GGGGAAGCTG CTTAGGATGA TGACATTTGC
179701 ATTTCACACC ATAACGGAAA TGGTGCCCTCT GTGTGTCGTA GTTACTCTT
179751 AACAAATGAAG CATTGCGATGC CCACTACATG CCAGGCCCTGG GCTGGCATTG
179801 ACAATTAAACA GAAAAACCT TTGGAAGAGT CATGTTAAGT TTAGTGGCCA
179851 TAGAGCAAGG AGCATCCAGG ATGAGAGAGC CCTCAATATC TGGAGTCGAG
179901 GTTGCTCTG CAGAGAGTGA GGACAGGAGC CCCTATATGC AGCACCTCTG
179951 CACCTGGGCA GTCACTTGTG CTGTGTGACC ACTTGGTGCT CAGGGCCTCG
180001 GTCTCTGCAG CTGCTGCCAT GCTGAGAACCA GCACAGGTGC CAGTTCACAC
180051 AGGTCTCATG CCCAGGATGT CCTTAGCAGA TGCCTCACAG TGGATAGCTG
180101 GAACCCAGAA TGGACCTGAC CCTTCTGTG TTCGTGTCCT GTTGGCTCTG
180151 GACAGGGTAC CCTCCACAAG CATGTCAAGC AAGGCCCTGG GCAGCCCCTA
180201 CCCATGGTCC AGTTGGAGGT GGCAGCAAGG TGAGCTTAGT AAGGCACCAG
180251 CTTAGGGCAG CTAGGGCAAG CCAGAGAGTC AGAGATCACA GCCCAGATGG
180301 TGCAAGCAGGC CCTACTTCTG CCATGATGCG TATGACAGAT TACATCATCT
180351 GTCTGGCATA CCCAGGTTAA ATAGATCAAG AGTCCTGCCA GTTCCACACA
180401 TTGGCTGCAA TCCCCTTTAT ACACACACAG TTTTCATCG TGTAAGTGT
180451 TGGCAATGAT ATTATTACAG GGATAAATTAA ATTCACCTT GAAATTCAATT
180501 ATCATAAAAC AACTCATTC CAACTCAGCA CACCTGAGGT ATTGTTATTC
180551 ACACATTACT TGTGACCTCC CAACTCACAC AAGTTGATAT CTGGGTATAG
180601 AGTGTGATT TTCTCCCATT AGGGACTCCA GAAGAGTTCT TGAAATAGCT
180651 GCCTCCCCAG CTCCACCTCT CACCCCTTGT GCCTGCCAA TGTTCCAGA
180701 AGGGCACAAT ATAGACAGCA AAGGTCTGTG GTGCACCTCC CCAGAGAAC
180751 CAAACCCCTC ACACTCTCT GGAGCCACAT GGCCAGATGA AACCTCTGAG
180801 AAGGAACCAA AGCCTGTCT GTCTGATGG CAGAAGTTGC AACCTGTAG
180851 GGCTCTCAA CATGTGATCT AAGACCACAG CTTTGTAAACC TAATCGCC
180901 ACGGTCCTAG TAAAAAAGGC ACATTCTCTG ACCCTGCCCT AGAAACTACTG
180951 AACAGAGTCA CTGGGTGTGG AGTCCAGGAA TCTGCATTT TACCCCTATC
181001 GCCCCCGCCA TTCCCCGCCCT TCCCCCCGCC ATTGCGTGC CTAATTGCTG
181051 GAAGCACTCA TGAGGAGAGC CGCCTGTGTT GTGTAGAACT CCCACCCCCG
181101 CAACACACAC TCACTCACCC TTTCACTTAC CAACAGTTTC CTGGGCTTGG
181151 GAGGTCTGGA GAAGGCAGTA GCCCTGCAAA TTGAGAAAGG CAAGCCTCGG
181201 AAGTGGACTC TTATATCTCT ACTGCCAAAA GGGGCTACAT CCTCTCAGGGC
181251 CCCTGGGTTCA ATTCCCTTGAG AACAGGGCTC AGCTGTTGGG GCTGATAAAA
181301 CAAGGCACCC TTCCAGTTAC TGAGCACCTT CTGGTGGCCC ACACTGTGCT
181351 GGGCATTGCA CATGAGCCGT CTCTCGTCT TGGGAAGAT AGTAGTTGTT
181401 ATCCATGCTC TATAGGTGTG GAAACTGAGG CCCAGAGAGG TTATGTGGCT
181451 GGTCCAAGGT CACACAGCTG AAGTGAAGATT GTAACCCAGG GTCGCTGAC
181501 TCCAGAGCCT GTGTGTTCTC CAGTGGTGC ATTGCTGGGG TAGTCTTGGG
181551 GGGCAGTGTG AGCTAGTTCA TAGGATGGAA GAGTACTGTG AGGAATGTTG
181601 GGGTATTTCAGGTTGATA AACCAAAATT CCTCTGGGCC GTTGGCATT
181651 TGAGAGACGG AACACTGAGA ACATAAGACA TGCTGAGATT TAGTTGTTT
181701 TAGAACCTGA AATCTCAGCT TACTCCTCCC AGAAACTGTG CTGACTTTCG
181751 GAAAAAGGAA ACATTTAGC CTGGTTTGGG TTCTGGATTG CAGTAGCAGT
181801 GGTGTTGCT AAACAAAGA AGGGAACGG AGCTTCTATC AGTGCATTAT
181851 TAAAGCAGAA CTGGCTGACT GTCTCCCTGG GAAATAACGG GACTGAGGCT
181901 TGTGCCTCCA GCCAGAGATT GCTCCTCCAT AGCCCCCATT GCCACCGCTT
181951 CTACTACTTT TGCCCTCCACT CCCCGACCCAC CCAGTGTATC ACCCTGCCAG
182001 AATGCACAAAT GCGCCGATTC ATCATTCCCC AACCCACGGT ACAGTTCACT
182051 TTCCCTGTGCT GCTAATTGGC CATGAGAGCT CGCTTATGAG GGATCAGAAAT
182101 TGTTAGTCTC TTCCATTGAG TCTCTGTCTG GAGACCAACT TCATGACATT
182151 CTCCAATTAG GGAGTGCAGG GGGGGCAGGG CAGCGCTATT CATCTGCCCA
182201 GAACCCCAT GAAAGTGCACAT GGGCTCATTA TGCAAGGAGAC CCAAGCCACT
182251 GGTCTGGGG GTCAGCACAG CCCAGGAGAG CCACGGAGGC AGGTCTCCCC
182301 CTCTCACCTC CCCAGACTCC CGGCTATCCT TTGCTCCCTG TGTCTCCCT
182351 TCATGGCAAA GACTTTCTT TGGTCAGGCT TGAAGGACAA CACTCTGTCT
182401 TCTGCTAGCA CACTCTGTGC TTTAAAAATT CCTAACTGGG AAAGATGACT
182451 TCTTTTGAGA TCAAAAGGCAC ACTCTCAGGG ATGTTGGGGC AATGAGGAAG
182501 GTGAAAGCTA CAGAGGAAGT CAAGACTGGT CCACCTCCAG CTCCCCATAT
182551 GTGGAAGAAG AGAAGACCAA GGCCAAGAGA GAAGGGTCTT GTCAGGGGG
182601 GGTCCCCAGC ACTTAGACAG GAAGACTAGA GCCCCCAGC TCATTCCTGC
182651 TTCCCTCTC CTCACCCCTAA CTTCAAATGC AGGCTCTTTA TCCTATGTC

182701 CTGTTCTCCC TTTGGACCCA GCCAGCTTCT GGATTCTTC CGCCACTTGG
 182751 CTTATCGTGC AGTGGACAAA CCACACGGCT ACACCTGACA GCCAGAAACT
 182801 GGATCATAAG CTTTGAGGGC AGGATCCATA TCTCCCTTAT TCTCTGCTGT
 182851 GTCCCAGGAC CTAGCATCTC ACCCACAGTA GGAACACAGA ATTATTCAAT
 182901 GAGTGAATTA ATTAATTAAAT GCTTTAACCT TAAAGTCAA ATGTAGAGTT
 182951 TCAGAGAGGA ACCCAGAAGG GCTATTCAA GAAATGAATA TCCAACAGTG
 183001 GAAATTCAAGA TATTACAGAG TCTTGGGAGG TCAGTTGGC ATTAAATTCTT
 183051 TCCTCACAAG AGTCTGCTAA TTACTTTCC AGGTTTCTG CTGAACAAATT
 183101 TGAACTCACA TTCGACATAG CTTTCCCTT TGTCTCTTC TTAATATCTC
 183151 AGCACAACTC CTGCTGTGGG GCATTGTTAA ACCTCAGGCC TGAGGGTTT
 183201 GGCAGATGCCG GGTAAACAGC TTTGCCACCT GGGGATGGCA TTATCTCTGC
 183251 CAGCCTCTAG CTGACTTGCT CTGGGCTCTCC TGCTGGGAGA CAAGACCAGG
 183301 CTGGGACAGG CCATTCAAAC AGCTTGAGAG CAGCTCTTAA GACAAACCTC
 183351 GGACTTAGCT AAGGTACCTT TTTTTTCTAGG TCACTTTGAA GAAATCTTAA
 183401 TGTTAAAAAG ATTTACAAAC TAAAAAACTT ATAATAAAAGT GTGTCAAAA
 183451 ATCTGTAACA AAATCTACAT CAAGTCCTT TGTTGCTCTGG AACATAATAA
 183501 ATGTGCAATA CATGTGAGCC CGTAGATCTT TTCTATCAAT ACTCACTTGA
 183551 AATAGATTA TCCACAGTCT AATAGTTAGA CCCAGTCTGA TGCGCATAAG
 183601 AAATGTTGCT ATATCTTTG TTTTGTCTT ACAGATTTC TTTTGATTAG
 183651 GTTATCTATT TGATGGAAAG GGAGGAAAGG CCTAGCATTT TCTGCACCCA
 183701 CTGTGCACCA GGAACCATGC TAAGTGCCTT ACATTTCACT ATGGCATGTG
 183751 CTTCTCTCTA TGGGCTTCAG GGAAAGGCTT ATTCTCCCAT TTTCCAGATG
 183801 GGAGAATTAG ACTCAAGATC TCAAGATCGT TAGACTCCAA AGCCAGTACT
 183851 CTCTCCTTTA CGTGGTATTT AGAAGTGAGC CCAGCTATGG GAATGCTGCC
 183901 TAGTGACCAC ATGGTCACTG CCAGCTTCCC TGTCCAGACC AGCCTTCCCT
 183951 TGGCCTGAGA TGTGCCATAG TGCCCTCTAG AGGACACCAT CACGTATTCC
 184001 TGTAGTGCTT GAGTGTCAACC AACCTGGAGA CGCCGTGGGA CAGCACAACC
 184051 AGGGAAAGTCG TAGAGAACCC AGGTGCCCT GGACATTCTA AAGACCATCA
 184101 TCTGAGAGAC TGCTCGGAAA TGCAAAGCTC ACAAAACATG TCATTTCTG
 184151 TCTCTAAGGT ATTGAATACA AATATCATCT CCTTTTATCT CCCATCTCCA
 184201 AAACAGTCCC CTGGGTTGT GTCTCTCTCA AGTGCTCTGT AAACCTCCCCA
 184251 AATTGTCAGC CGGTCCCAGG AGATGCTTCC ATCACACTGG GTGATCATCT
 184301 CATGATAACT TCCGAACTGG CCTCCTGCAC TGTTCACGGG TCTGGGTGGT
 184351 TACCCGCGCA GCAGAACATC TCAGCAAACG CTTGGATGTG CACTGACTTT
 184401 GAACGGCTAG AAAGTTCAAGG GGCACCACCT GCCTCGGAGC TGCTGCATGA
 184451 CTCGGGCTG AGGTGTCCCC TGAAATCTTG GGGACAGGCA CTTCTCTGC
 184501 TGGCGTCAGA CAGAATGTGG TCTCCCCACA GGGAGCCAG TCCGATTCTG
 184551 CAGAGCCCGG CTGGGCCCTG CTGGTCTGCG GGTGCCCTT GCCCTCGTGC
 184601 ACACAGCGAC ACCTGGTGGT AAGCTGGTGA ACCGCCGGGA CCCCAGCGCT
 184651 GTTCCTCAGC TCTATGCTGG GCTCCAGCTC ACGTGCGCTG TGTGCACCGA
 184701 GGGACTTGTC CTGGCACGTG CACACCCAGT CTTGTCACCG ACCGAGTACT
 184751 CCGTTGTGAC AAAGTTATAC TCAGTTATGT ATGTCTTCTT CCTGCTCTGT
 184801 GCAGAGAGCA GTCCCGTGGC CTCAGTCATG AGTCATTGT CTGTACTCAT
 184851 TCTCAGAGGG GAAGAAAATG AGCTGTTCT AACTACGTCT ATCCGTACCA
 184901 CCCCGATCGC CATCCTTAATC GCCATCAACC ACCACCATCC CTGCCGTAC
 184951 CACTACCATT GCCTCCACCA CCATTAGCCA TCACCACCGC CTCACCGCCA
 185001 TCATCCCCAC CACCCCTCGA TGACCACAGC CACCTTTGTG CCTTTACTAC
 185051 TGTACCCCCA TGCACTCTGT CGCTCCTGTA GCAGGGGCTA ACTCCTCACA
 185101 TAGCAGCAGA ATTGGGCAGC CCTGCCCGCT GAGGTCCAG GAGGGAGGCT
 185151 GAGGGCCTCT TCCACAGAGA GTGCTGTGAA AGGCTTTGG AAGGAGGGCA
 185201 GGAAGGACCC AAGAGAGCAA GGCAAGAGGA GGATGGGCCT TCTCCAGCTC
 185251 CTAGCTGGCA GACAGGACAG CACGAGGTAC CGCCTGGATG CATTAGGAC
 185301 TGAAGTTTCT GCTGATGTCA ACGAATGCTG GAAATGTCCC AAGACCCAG
 185351 TTCAGGACTG CGCCTCATCC AGGTGAGCAG TGCAGAGCAG TCAAAAGGGG
 185401 CCAGGAAACA AGCCGCCAT TCATTGTCAG AGTCCAAGAA CAAAGCCAGC
 185451 GGGCCAGCTC CAACCTGTT TGACAGAAAT ACCAGGGAT CTTTCTTTT
 185501 TCTTTCCATT TCCCCCAGGC AGCAACTGTA CAAATGAAAC TTCAAAACTA
 185551 GAGCTCGGCC GTTCAGAGCC TGACACAGC TGACCTGTTT CTGTTCTATT
 185601 TAGCCTCATT CTCTCAGAAG ACAGAAAGCC TCATTCTCATCA GAACAATCAC
 185651 TTCAGCCAG AGGGGCTTGG GTGTTGTTTC TAAGACATTA CAACTTGCAG
 185701 CCATAAAGGA AAAATGAAAT AAACGTGGCA AGAGTTTGA AGTGGTCTGA
 185751 ATGACCCAAT TAAACACATA TTTTCAAGTC AAACACACCT TTCTTAATGT
 185801 AGAGATAGAA TTGTTAAATT TCACAAATTA CCATGCTCGA TAATTGTCTA

185851 AGAGTAATTT GTGTAGGATG ACACTGTTT CTATTTACTC TCATTCCCTA
 185901 GGTGATGTCT TCTAGTCCC TGACTTTAAA ATCTTCCATT TCTACATCTC
 185951 CAGGGACACC TCCCTCCTG ATTTCCCCA CTTAGACACG TAATAGCCAT
 186001 CCCATTCTTA AAGTAGTTAG AACAAATTCT TTGATTTTT TTTTCCTTC
 186051 CAAACCTGGT CTTGACACGT TTTCCCCCTT TTAGTAAACG GTAAACAGCA
 186101 TCCTCCTCAT TGTTCAGCTG CAAACCTACA CAGTCCTTCT TACCCCGCCT
 186151 CCTTCACTCA CACTACCCTC CACTGTCTCA CCAAGCCCTC CGCTCTTC
 186201 CAGTGCCCCC CAGTCCAGGC CCGGCTCTCT TGCTCAGACC TAGGCTGCCT
 186251 CCCTGCTTCT CTTTTGCCA CATTCTGTG AATCCTCCAC CCAGCAGGCCA
 186301 GCATGCATT GAAAGAACAT AGATCATATC GTACCACTCT CCTGCTTAAA
 186351 ATCCACCACTG GGCTGTTAC TACACTTAGG ACACAGCCAG AGCTCCCCAC
 186401 CCAGCCCTGC TGCTCTGTCC CCAACTCGCC TCTAACCCCA TCTTGC
 186451 CGTCCTTCTT CTCTCCCTCA TCCCAATCAT CTTCTTGCT CTTCCTTGAA
 186501 AACATCAAAT TCACTCCAC CCGAGGGACT TGGCACTCGG TCTGGACTCT
 186551 GATCCTCTTC AGCTTGTCC CTCACTCCAT GCTGAAAGGC TGCCCTCCTC
 186601 AAGAAGCCCT CTCTGACAC CTTATCTAAA TATCCCTTGT CCCTCACTC
 186651 CTCATCTCTT TTTTAGTTT TCTTTTTCTT CATGGTACTT ATCACTTCCC
 186701 GCCTGCTTCC TCCACTCAA TATAAGCTCC ATAAAGGCAG GGATTTTGT
 186751 ATGTTTGTGTT CACTGCTATA TCTCTAGCAC TTAGAATATG GCCTGGCACA
 186801 CACTCAATAG GTATCTGAAT GAATGAATGA ATGAATGAGT GAGCATGATG
 186851 CCCACCCAAA GCAGCTTGTCT GCCAATCTT GTGTCTTATG GGCTGTCATT
 186901 CAAGGGTGGCG GGATGGGCTC ACTTGTATC CTCCTGAGAG CAGCACTTAG
 186951 AGATCATT TGAAAGACAGC ACATAAGGC TTGGAATGG CTCCCCCTCC
 187001 TGGACCAGCT TGCCAGTGT ACCCACCGTT AGGGCAATGG CCACCCCGTG
 187051 GAATGCACAC CACAAGGGCA AGCGAAGAGC TCAGCGAATG GGGGAAACTC
 187101 TTATCCATA TGCTCAGCTG TCGGGCCTGG GATCATGCAA GGGAAAGTAT
 187151 ACAGACAGCA GGCAGGGGAG TCCCCGACA GTGGCTGTAG CCAGAACTGG
 187201 CCACATAATT TGTAGGACCC ACTGCAGAAG GCAAATGTAG AGCCTCAGCT
 187251 AGGGGTTTCC TTTGGGCCCCA CTGCCCCAACCTCTACAGAC AGACAACATC
 187301 CAACAGCTTG CAACCCCTGT ACCAGGATGT GTTCAAAACC TGACTTGAAG
 187351 GTGAGCAAGA GGCCCACGT ATGCACCATG GTGCTATCAG CCTGGGAGT
 187401 GACAGCCATA CCCTTGCCTT GCCCTGAGAT GCCTGGTGGT GTGGGCCAA
 187451 CCATTGCCCTC ACCATACCC ACACCCAGGC CCCTGCCAGG GGTGGAGGGC
 187501 AATGGCAGAA TGCTCCCTCC CTCAATGTGA CCAGGTCACT GTCAAGGTT
 187551 GAAGGCAGCA GCAGGGGTGA GTGGGGAGA CCACCCAGGG GATAGGGGTG
 187601 AGAACGAGGC AGCAGAGAGC CATCCTGGGA TGCTGAGGAG GAGGTGAGAG
 187651 TCAGGGCCAC ACATGAGCG AGGCTGCAAG CCCTGGCACA TTCTCCACTG
 187701 TCCCCTGACC CTTCTCGTAT AGAACACAAA TTCAAAGAGG ATCAGCAAGC
 187751 ATTTCAGAAC AAGAACCCCA GCAGTAAGCC CCAAGCTCAA GGGCCTTCTG
 187801 AGTGTGGGAC CCTGTATTAC TCTACAGCCA TGCACCCGTG GGGCAGCCCT
 187851 GGCTGCAGCC ATGAACAGAG GGGCCACCAAG CATGGGTGTG TGACCCCTCTC
 187901 CTGTGTAGA AGCATCTCTG CAGTTGAGC AGCTCCAGAC CACACCAGGT
 187951 CCCTGTGTC CTCTGCTCC TGCTGCTATG GTGGCACCAT CATTGAGGT
 188001 CAGGGAAATT GCACAGTAGT CCCTGCTGA GAGCCCCCTT CATCTTCAGA
 188051 GCCTAGAGTG GGTCAAGGCC CCTGCCAGCC AGCCTGCACA GTGTGAAGC
 188101 CCTGGATTGC TTGTTAAGAT TTGGGGAGAA TAAAAGATT CTTAAATT
 188151 CACTTGAGAT TATTAAATCA CAAGTGTGGT TTGAACAAAA AGTAACCT
 188201 GAATATGAAT TATTAAATT TTGAGGTATA ATTACATAC AATTAATGCC
 188251 ATAGATTTT GTCAATGATA TTCAGCACAT GTATACACCA TCACTCAATC
 188301 AAGATATAAA ACATTGCTAT CAACCTAGAA AATGATCTT CTAGTCACC
 188351 CTCCCATTCAGA CAGAGGAAG CACTGTTCTG ATTCTAGCA TCGTAGATTA
 188401 GTTTAGCTA TTTTGATT TTATGTAAGT GGAACCATAC AGTAAGGAAA
 188451 CTTTGTGGCT TCTTGACTC AAACTCAGTA TAACACTGAG TTTTATCCAT
 188501 GTAGCTGGGA AAATCCATTG CTCGTTCTG TTATTGCTAA GTAGTATT
 188551 ATTGTATGAC TATATCACAG TTGTTTTGT GATTCTGTT AATGTACATT
 188601 AGGTTCGTTT CCATTGGGA ACTACTATGA ATAAAACCTTC CATAAAATT
 188651 TTTGTATGTG CCCTTTGTG AGCATAGTCT TTCATTCTC TTGGATATAT
 188701 ACCTATGAGT GGCAAATAAG CACATAAAA GATGTTCAAG ATCATCAGTC
 188751 ATTAGGAAAT ACAGATTGAA ATCACAGTGA TATACCACTA CGCATTAGT
 188801 AATATGCCAC TAAATTAAA CAAGTTGAAA GTTAGCAGAC TGACCATAGC
 188851 CAGTGTGGC AAGGATCTGG GAGAACCAGA ACATTCTAA TCTGCTGACG
 188901 GGAATGTAAA ATGGTACAAC CACTTGGAA GATGGTTGA CAGTTCTT
 188951 AAAAGTAAA CCTTTACTT TTACCTTATG ATCCAGCCAT TCTACTCTTA

189001 CCTACTTACC CAAAAGAAAT TAAAGCATAT ATCCATAAAA ATACTTGTAC
 189051 ATAGATGTTA ATAGCAGCCT TATTGAAAT TGTAATAT TAGAATCAAC
 189101 CCAAATGTCC ATTAACAGTT GAATGAATAG ACAAAACTGTG GTATATCCAT
 189151 ATAGTAGAAT GCTACTCAGC AATAAAAAGG AATGAACTGG CTGGGTGTGG
 189201 TGGCTCACGC CTGTAGTCCC AGCATTGGG GAGGCCAAGG CAGGCAGATC
 189251 ATGAGGTCAA GATATTGAGA CCATCCTGGC CAATGTGGTG AAACCCGTGTC
 189301 TCTACTAAAA ATACAAAAAT TAGCTGGCA TGGTGGCACG TGCCCTGTAGT
 189351 GCCAGCTACT CGGGAGGCTG AGGCAGGAGA ATCACTTAAA CTGGGAGGTT
 189401 GCAGTGAGCC AAGATTATGC CACTGCAC TCAGCCTGGTA ACAGAGTGAG
 189451 ACTCCATCTC AAAAAATAAA AATAAAAAT AAAAAAGGA ATGAACATT
 189501 GACACATGGC AAACCTTAAAT GAAGCTAAA CCTATCGATG TATTCTATAA
 189551 CATGAACGAA TCTCAAAATA ATTATGCTGA GTAAAACAAG CCACACAAAAA
 189601 CAAGAGCAGTC TACTACGTGA TCCCATTAT ATAAAATTAT AGGAAATCCA
 189651 AACTAATGTC TGATGACAAA AGCCAGATCA GACTGGGTT GGAGGGACAG
 189701 GGAGGGCAAA AGGGAGGGTT ACAAAAGCGC ATGAGGAATC TTGGGTGATG
 189751 TGTTTGTGTT CTGGTTGTG ATATGGTTTC ATGGGTGTAC ATATATGTCG
 189801 AAACCTTCA AATTGTATGC TGTTATAGG TGTTAGTTAAT TGTCATT
 189851 ACTTCAATGA AGGTGTTGTC TTAAAGTCA AATGACTGTA TAGTATAATG
 189901 CTATTTCCGT CCTCTCAGTC ACTCTCCTTA TTCAAGTACC ACATGGCTT
 189951 ATTTTTGTGTT GCTGTATAGT AATTCTGAG TTAAGGTAGC ATTTGTTCTC
 190001 CAAGCTGTT CTTTTCAAG ATTGTTTGC ATATTCTATA TAAAGTTTAT
 190051 TTCCTTATTT CTATAACCAT TTCCATATAA TTTTTAGAAT AGCTTGTGCA
 190101 TTTTTTCAA GAAGTCTGGT GGTATTATGA ATGAAATTGT GTCAAATCTG
 190151 TAGGTAATT TAGGAAGAAT CCACATCTA GATATATTGA GACTTCTAAT
 190201 CCGTGAGCAT ATTGACCTGT TTCACTGAATT ATGCTTTTA CAGAATT
 190251 CATTTTATCT AATTGTCAA ATTATTGGTG TAAATTTCT AATACCACCT
 190301 AATAATTCT GATGTCTGTA ATAGCTATAG AAATACTCTT TCTTCAC
 190351 CTGATATCGG TAATTTATAA TATCCATCTT TTTTCTCTT GATCAGACTT
 190401 GCTAAGAATT TATACATTCA TAATTTTTT AAAGAACAC ATTTAGCTT
 190451 TGCTGATTTT TCTCTATTAC TCGTTTCTA GTTTAGTGT GTCTTTCT
 190501 TACTTTGTT GTTGTGCTT CCTTTGGTA CACTCTTCC TTTTCTTTA
 190551 TTCTTGAGGT GGAAAGTTAG TTCACTGTCT ACTGATTCT GTGTTCTG
 190601 ATCATAAGTG AAACCTCTT TTTTTTTTT TTTTTTTTT TTTTTTAAG
 190651 ATGGAGTCTT ACTCTGTCAC CCAGGCTGGA GTGCAGTGGC GCAATCTCAG
 190701 CTCACTGCAA CCTCCGCCTC CGGGGTTCAA GAGATTCTC TGCTCAGCC
 190751 ACCCTAGTAG CTGGGATTAC AGTTGTGCAC CACCACGCCT GGCTAATT
 190801 TGTATTCTTA ATAGAGATGG GGGTTTCACC TTGTTGGCCC AGCTGGTCTC
 190851 AAACCTCTGA CCTCAAGTGA TCCACCTGCC TCAGCCTCCC AAAGTGCTGG
 190901 GATTACAGGT GTGAGGCCACC ACACCCAGCT GAAACCTCAT TCTTATTGTT
 190951 CCCCTGAAAA TAATGTGTCT TTTCTTCCTC TGGCTGCTTC TTATGTTT
 191001 TCATTATCTT TGGTTTTCAG TTGTTAGATA ATAATTGCCC TTGTTGGTTT
 191051 CCTTTGTATT TATTTGCTT GAGGATTCT TGCTTCAGAT ATTGAGTTGT
 191101 CTTTCTCAG TTTGTAAAT TTTTAGCCAA TATATTCTA AATATTCTT
 191151 CTGCCCTATT CATTATCTCC TCTCTTCTG AAATTCCAAT TACATGTATG
 191201 TTGGTCCTAT TCTTATTGTC CCACAGTCT CTAATGATCT GTTTAATT
 191251 TTTTTTCATT CTTTTTCTC TCTGTGCTTC AGTACAGGCC TTTTTTATT
 191301 TTGACCTGTC TTGAATTCA TTGATCCCC TTCTGCTAT GTCCAGTCAG
 191351 CTCTTAATCT TATCGAAGGCC CATTAACTCT TTATTTCAGA TCTTGTATAT
 191401 ATCAGTCTA CTAAAGGCTT GTTCTTCTCT GGAATATGAT TGACTTAGAC
 191451 ATATATTCTC TCATTACTGC CCCATGGCTT TTAAAGAGAT ATGAATT
 191501 GTTTATTGGA CATTTTTGT TATGAGAACAA ACAATCTT TCAAACCT
 191551 GTATCCTAGT TAGAAGTACA ATTCTGTGTA CGCAATTG GATGCCCTAT
 191601 TTTTCAGT ATGTTCAATA TTATTGGAAA ACTGCAAGTA CAGTACACAG
 191651 AACTCCCCA CATCCTTAC CCAAAGACCT CATTCAAATG TTGCCAGCTG
 191701 TCTTAATATG TCCTCGATAG AAAGAAGATT CAAACCAGAG CACTCAT
 191751 ACTTAGCTGT CATCTGCTC CAGCCTACTT CAATTCTGAA CAGTGCTTGA
 191801 GTCATTCCTT GATCTTATG TCCTTAGCAG TTTTAAAT TACAGGCCAC
 191851 TTATTCTAT TAGAGTTGT CTGATGTTTC TTCACTGAATC TTGGAAGA
 191901 ATATTACTGA AATTATGCCG AGCTCTTCTC CCCACATCCC ATCAAGTAGG
 191951 AATTATGTC AACTGGTGCAC ACCACTGGTA ATGTTAATT TGATCACTT
 192001 AGTAAAATGA TATCTGCCAG CTTCTCCAC TATAAACTTG TCCTGTTT
 192051 CTTTAAATT AATAAGTCT ATAAAGTAA TAAATGTTT CGGATGAGAT
 192101 ACTTTGAGAC TATGTAATAA TCCTGTTGTT TCTCTTCAC CCGCTAATAT

192151 TAACATGTCT CAATTCTGTA ATCAGAATTAA ACTAGTACTG TGATTGCCAA
 192201 ATGAAAATGT TCAGTTCCAT CATTTCCTCT ACATTACAA GTTAAAATTT
 192251 ACTGTAAAGA AGAGTTCTC TTGTCCCCAT TTATTGTTTC ACTTTTTAAA
 192301 AATCAGTCC ACCAAATTAA CAGAAAGCTA TTACCCATTA CGACCTTACG
 192351 ATTTTCATGC TAAAAATGTC CCAGACTTGG CCAGTAGGAG CTTCAGTCAGA
 192401 CTGCCTTTA TGTCCTTTT GATGCATCTC ATGATTCTT AAGTGATTCC
 192451 TTACTTTCTG GTACAAGATG TTCTAGGCTA TTCTTATTTC TTCCCTGCC
 192501 CTTCCCTGGA ACAAAACCATT TTTTCAAAGA GCCTTGGTTC TTCTTAGTGG
 192551 TGAGCTATT TGAGAACAA AGATGTGAGC GTTAAACGTG CTCCCTGCTA
 192601 TTGGGGTTT GCTGCTTGCA GATTCTCTC GAAAGCGGGG TAAGGACCTA
 192651 TGTATAACATA GACACATACA CATGTATCTT GAGCTATAAA CTGTGAGTTC
 192701 ACTTCATAACATC CTCCAATGCC AGTCCAACCA CAGAGTTCAT TCTAGTGTTC
 192751 CCTCTTTCA TATTTGTAAT TCTCTTCTC CATGAAAAC CTAGTTCCC
 192801 CTGTCCTCAA TATATTATA TACTGTTAGA TTCTCTGCA TATAAGATAA
 192851 CCTCTGCCC CTGCCACGCT GCCGCACAC TCAGCCACCT TCCTGCACCT
 192901 AATCCCACCT TGCCACCCAC TGCCTCAGCT GCTACCGGAG ACCGACAAAG
 192951 CCACCCCTCCC ACTTGTGATG TCCCTTCTC CGTGGTGGCT TTGACCCCCA
 193001 CTTGGCCACC ACCATGCTCT GCCACCTCCT CTTTACTATG ACTTTTGAA
 193051 GATAAAACAT AGTTAGAATC TCCTCTCCTT GGAATAAAAA AAAGGTGAAA
 193101 GTCATTCTTA TGTGTTAGA GTTGAATCT AAGTATATTA ACAAGAATCA
 193151 AAAATAATT AGTTTGGTT AATGTGACCT GCTCAGAAGA ATATTTGAT
 193201 TTTTAAGATT GTCTAATTTC GCCACCATAA GTAAGACTGA GCCAGTACTT
 193251 AGAATGACTT TTGTCCAAGC TTTAGGTGGA AATACATCAA CGACAGTGG
 193301 GGGTAAAGCC TTCACTTTCG GATGCTACCA TCTCAGGAGA GCCGGACAGT
 193351 CAAACAGGCT TGTCCTGACC AACATAGATG AGAGATCAGA TGACATTATA
 193401 GGTGAGACC CACACTGTGG TGGCCTGCC TAAAGCAAGG CATTGCCTGC
 193451 TCAGAAGATA CTTCAAACTC AACTCAGTCT TTTGATTTCT TCTATCAGAA
 193501 GTGGCTCAAA AGGAACTAGT CACTGACCTT GTATTGTTAG CCAGCCACAT
 193551 CTACATATCG AAGAAAGAAA GTACTGTGTC TAAGGGCTTC TAAGTTGGGT
 193601 TTGGAGGTGG AAGAGAGGTG CATAGGTTAT TGGTAACAAA TGTGTCCATT
 193651 TTTTCCTCC ATTGTATCCC ATTAATAGGC TTCTCTTAT TGGTTAAATT
 193701 CCTGGTGGCA GGAGAGTTTA AACTTGCTT TAACATGCAG GTGGGCTCAG
 193751 GAAAATGAAA ATAGGCTGTC TGGCAATAAC CCAGGCTCCT AGGGTTCTTC
 193801 TGCAATAGGA ATTGTTCTTG TCTCTTCTCC AAAGGGCTAA ATGGTGCGGT
 193851 GTGAAAATA ATACCCCGGT ATTTACCTCG AAGTGTCTT TTAATTGTTG
 193901 GATTCTGTT TTAAAAGTC TAATCTGACT TTTGCCTCTG GCAACATAGC
 193951 AGATAAATAT TTTTAAAT CCTTTAAAC ACTGATGTGC TTGGTAAGAA
 194001 AATAAGGACT ACCTAGAGGC TAAAATACA AGTGAATCA GGAATCCAGA
 194051 GAGGTAAGAT AGCTGTGAGA CTGACTTTAC CTTGAGGGCT TTGCCAAAC
 194101 TAGGTGAACG TTGGTTTGG TTTACATACC CTCCGTGGCT CAGGATACCA
 194151 AGGACAAATC CCAGGGTCTC TCCGAGGTAG GCATATGTGG AAGGTTCCCA
 194201 CTCCCAGTCC CCTATATATA TACACCTGGG CCCCTCAAGT GCTATATCTG
 194251 CAGTGTAAAG GTGAAACAAGA AAGAAAGAAA TCCACCCAGT CCCAAGGACT
 194301 GGCAAGAAAA TGTCTCTGCC TCAAATCTTG GCACTGAGTA GACAGAGAGA
 194351 AATTTCCTTG AAAATTATA ACCATAGACT GATGCCAGA AGGAATTGTA
 194401 GCTCATATGC AAACATACCTG AGTAACCTGA AAAATCTCAA ACATAAAATT
 194451 TAGTTAACCC CAGAATGGTG GAGTCCTTGG GTGCCGGCA CAATCAAGAA
 194501 GAGGCTATAT CCAAACCTATA TCTCAAAAAA TTTTCACAGA TTATATTCCA
 194551 GAAAATGTGA GCTCTTTAA AAAGAAATCA AAACACCAAA AGGAGAAATGC
 194601 CATGTAAAGAA CCAACAAAT CTGTGAATAA AAAATGATA CCGAATATAA
 194651 AATATGTATA TTTAATATT TTTAAAAATT AAAATATGA TTGAAAATCA
 194701 AGAGATTATA CAAATGGCCA ATCATCTT TGAATGGCTA AAAAGAACTT
 194751 CTGAAAATTC AAAATTCAA ACTCAGTGG AAGAGTGTAAAC AGTAGGTTAG
 194801 AAATAGCTGA AGAGTTAATT TAAGAGCTGG AAGACGGATT TGAAAAATTAA
 194851 TACAGAATGC AACATAGAAA AACCAAAGAT GGGAAATGCG AAAGAGATAA
 194901 GAGATACTTA AATAGAATGA AAATTGTTAG CATATTCTA ATTAGAATAC
 194951 CTGGAAAAAGA GGGAGAAAAA TAATGGAATA GAGATACCAT TTAATGGAAG
 195001 ATAGGTAAGG ATGTTCAAGA ACTGATGAA GATAGAAATC CTCACCTTC
 195051 GGAAACCTGA TGAATTATAA GCAGAATAAA TGCAAAGAAA TATGTGTGTT
 195101 TGCATCACAG AGAAATTGCA GAAAACCGAGA GAAGATGTTA AAAATTATCCA
 195151 GACATCAAAA ATGGATTACC TATAAGGGAA TGAAAAGGCT ATCAGGTAAC
 195201 ATCTCAACAA AGCCAGAGGG CAGGGGAACA AAAGGTTTAT CAAGTTGAAA
 195251 GAAAAAAAT ACACGAACAT AAGAGTAATT ACACAGCATA AAAACTCTT

195301 TAAAATTAGG ATAAAATAGA CATTAGAC AAACATAAAG AGAATTGAG
 195351 GTATAAGAAG GAATTATGAG GAATAAAGAC AGACTCACAA TATACAGTAT
 195401 TGTCACTATAG TTACGTCAGG AAAGGTTCTA AGGTGTTCTA AGGTTCTTCA
 195451 TGGGGAGGGT TAAAGTGTG ATTATAGACT TTGGCTTAAT TATACATTTT
 195501 AAAATTGAG ATAAACAGTA GAAGAATAAA AGAGATATT AATTTTATA
 195551 TGAGCAGAAC AAGAAAATCA GGGTGAAGTA TTTGATTCAA AATAAGGAAC
 195601 CAAAAGAGAG AAAGAGGACC ACAGAAAAAG GCAAATAAAC AATCTAATAT
 195651 AAACTAAATA AATAACATGT TTATGTGGG GTACTATAAG GACAATGAAT
 195701 GAATCACCAC TATATGCAGA CATGGGTGTA ACTAAATATC GTGGGAGAGC
 195751 AAAAGAAGAA AGTCTCTGAT GAGTACATAG AGTGTGATTC ATTTATATAA
 195801 AGTTCAAAAA CATGGAAAAC AACATACTGC ATAGAAATAC AAAGGTGAGA
 195851 TAAACCAAAA GAATGATAAA CACAAAATTC AGGCTAATGA CGGTCTCTGT
 195901 GTGGCAATGA GGGAAATAGAA CTGGAGAGGG ACACATGGGA AAATTCAAAA
 195951 TGAAAGACAC CGTTCTTTT CTTTAAATGA ATGGATTCAT CCGTTGTTG
 196001 TACGATAATG CTTAAGCCAT CCATAGAGTG GATAAGTGT TTCTTCTGTC
 196051 TACTCATTAT TTAATAGAAA TAATTTAAC ATTATAGTT ATTCAAATTT
 196101 GATTTTTTGT GTGGTGTGAA ATAGGTTTCC AATGTGTGTT CATTCTAGGT
 196151 GGATAGCAGG TTGCCCCAGC ATCATCTATC AGAGAGCTAT CATTTCCTA
 196201 TTGGAGTGGT AACTCTTATT ATACATCTAA TTTTCATATA CATTGGCATT
 196251 TATTTCTGGA TCCTGTTTC TATTTTATTG CCAAATCTGC AGTCACTGAT
 196301 TTGCCTTTC CTAGGTTGAT CTCATATTGA TTTTATCACA GCAGCTTCT
 196351 GGGTTGAATG TTCTAGTATC TGGGAAGGCA CATCCCCCTA CAGTATTCTT
 196401 TCTCTTATTT TCCTTGGTTA TCTGGGGCA CTTATTACTT CAAATGAAC
 196451 TTTTAAGATC ATTCATCTA AGTCTAAAAT GATTGCATTA AATTTGTGTA
 196501 TTTATGAGAA TGTCCTCCTA CCCACGAATA AGAAATGTTC CAATCTTATT
 196551 TTATGACCTT CAATAGGGTT TTACAGCCAT TTTTATATA GGTCTATGG
 196601 CTTTCTTGTC AAATTTGTTT ACTAATATT TATGGTTTT ACCATGATTA
 196651 TGAGTAGGTG GTTTTCCGT TTTTCACCTC TAATTATTAA TTGCTACTGT
 196701 TGAGAGGAAT GATTAATTAA TTACAGCCAT TTTTATATA GGTCTATGG
 196751 ATAATTCTCT TATAATTAA ATATTTTTC ACTGGAGTCT CTGGATTTC
 196801 TAAGTATACA GATACATAAT CATCAAAAG AGATCGTTGT TAGCTGTCTT
 196851 TCTTTCCAA ATGTTAATGA TTATTCATT GTCTGTCTT ATTATACTTC
 196901 CTTTATGAAT AAGAATGATG ATAACAAATA TCCCTGTCTG GTCCTGATT
 196951 TTAATTGGAA ACAGTTAGTG ATTGGCTATT TAAGGAGTTT TCTTCTATTT
 197001 CTTTGTCTT AGAGTTTAA ATGGAATTAT TACTGTATTT TAAGACTTTC
 197051 TTTATTCTA TTTTCACTCT AGGTTTGAG ATATGCTTC TTCTTGACCT
 197101 TGGAAGACTG GAGTCTTAAT AGTGACCATT GTCTCCTAA ATTGCCCTGA
 197151 TATTCTTAAC CTTGGAAGAC TTGACATCTC AATAGTGACC ATTATCTCCT
 197201 TAAATTCTTT CCTGAAATTC TCCTGATTTT CTTGTTGGCT CAAAATCAT
 197251 AGTTCCCCCA AAAGCCTTCT TTGTGCTGTG CTTGATTCTC GTGGCATT
 197301 GGTATTCTGT TGTCACTATT TAAGGTGTC CTCCTCCTCT GCAGTAGCTG
 197351 TAATTCTAGT CATTTTTCA GAGGCTGGAG CTCCCAGTGT ATATGGTTCT
 197401 TTTCCATAGC CTGTTGAAG GCAACACTGA AGTACCTAA GGCACTGGTG
 197451 GTCTCACAGA GAGTACCTGA TAGGGCAATT GCTGACCCCTG TGAGCTTCTC
 197501 ATAGAAGTAG ACAGGTTGTC AGGCCCCAGT GGAGACCCCT GGTCTCCACA
 197551 TGCTCTCTG TACTCAGGGG TAGAGCAGAC CAGCCCCCCC ATGCATTCTAG
 197601 GAAAGCCAGC TTCCCAGAAC CCTCAGGCC ACCTGTCAGA GGCCTCAGCC
 197651 ACTGCTGGC TCGTTGAGC CAGGGGATG AAGTTGAGAA TAGATGAAAT
 197701 CAGATTGTCC GATATTGTTA CTAAGCTTG TCTTGATATT ATCCAGTGCA
 197751 TGTTTTATG GCTGATAATC CCGTTGAGAG ACAAGGGCAG ATCCCTTGAGA
 197801 GGAGAAATTG AAATGCTCT GATTAGAAA TGGTAGTTT CTGTGCTAAT
 197851 ATTAGATATT TTAACTGAGC CATTTCCTTC TTTAAAGTA GAATGAAGGA
 197901 GAAAAGCATG TTGTTATTGT GAGACACATC TATGACAAGT GATCCAACCA
 197951 AGGCAGGTG CGGACCGGGG CGGCCCTGT ATGGCAGGTA AAGGGCCCTG
 198001 GAAGAATTG GCTCCCCATC TGTGCTGGCA AGTCTCCAAG GATAAAAGTGA
 198051 CAAGGAGCAT CACGGCGGCT CACAGAGTAA CTCCACAGTG ATTCTTGAAA
 198101 TAATTGGAGG CAGCCTGGGG TGTACGGCC TTGAATCATT AGTTGGTGG
 198151 AAAGCAGGAA GGAACCCACG TAGTGGCGCA TCAGCGAGAC GGTGCAGACC
 198201 GTGGAGAGCA GCAACATCTG GTCCCTTGG CTCCAAGACG GAGGGAGCCC
 198251 AGAGGAGCTG GGGAAAGTGA CAAAGGAGCT AAGTACCTGA AGGAAAAATG
 198301 AGGGCCGGTG ACAGGGAATA AGACAGATGC GAGCTGAAGA GGCTTGTAGGC
 198351 AAAGAAAAGG AACTCGGGGG TAGGAATATA TTTGGAGGAA GTGTCTAAAA
 198401 CAAAGCCGTT TTGTAAAAGA AACTCTCCA AGGGCAGAAA TCGTATTGTA

198451 CTTGACATTT TTATGCAGCT TTTCTTCCA AGAAGGTCTC CAAAATAACC
 198501 CTTCAAAAGC CGGGTGAGAT AACTTGATAG GACAATAGA GGGAAAAGAA
 198551 AAAGGTTTGT GCAGTTTAT TGTAGCCAA AGACATCCAA GTAAAACAC
 198601 AGGCTCTGAT GTACATCCTC AATTACAGA TGTGGGATAA TTTTTCCAT
 198651 CTCAGGGATC TCTATACAGC CCTCTCACGT ACCCACGAGG AACTGAGGG
 198701 TTGCATGTGA AAGAGACACA CCTTGTAGAT CCCAGGTCGC TATTCTCCA
 198751 CCGAGGGCTT TCTACAGTCT CCACTCTTC CACTCAATCT GTGACCATGT
 198801 CTGTTTCTGT AAAACCATTG ATGGATTACT CAGCTCTCTA TCCAGCCAGT
 198851 CTTGGGTCTC TGCACTCATCT TCATCAGATT CAGTCCCTCA CCCAGCCCAA
 198901 TCTGTGCCAG GCCTGGTGT GAGCTCTGAA TGAAGTGGAG CCTGGTCCCA
 198951 ACCCTGAAAC CACAGACACT GCCTGATGCC CAGCCTGGAG TTCTGAGCAG
 199001 CTGTGAAGGC GCTGCTGGGG CCCTGCCTCG GGGCCTGCTG TTCCGTCTAA
 199051 GGAACCACAG GAGCGGGGGT CCTCAGGCCA GCAGGGTGGC AGCCTCCTT
 199101 AGGTGGAGGA GATCTGGGAG GGCTGGGGGG AAAGCTCTGG AAATGGTGAG
 199151 TCAGGTAGCT TCACTATTGT CACAGACAGC AGATGGGAG ATGACACACA
 199201 GTGCAAAGGG CTCCCAGAAG GAGGAAAC CATAGGACCT GTCTGTAGCA
 199251 GGTGAGGCTG AGAGGTTGC AAGATACGCT GGCATGGGC CCAGGTCAGG
 199301 GGATGCCTT GAAACTGTCA CCAGGGTCC TCTGGCAGGC CAGCGGCCCT
 199351 GGTGACTTAC TGACACTGCC CTTAGGTGT GAGTAGAGCC TGCAGTTGT
 199401 GCTGTGAGTT AGTCCAGTC ACTTTGCCCT AAGAACATGTAT AATTTCAGAC
 199451 TCCCCCTACCT TGGAAGGCCAG CGGGAGTTA TAAGGGTCCA GTGAAGGCCCT
 199501 GGCAGCAAGGG AAATTGCAAG GGAAGCATT CTTTGGGTA TTTTGAAGCA
 199551 TGCTATTTCG CATCTGCCCT TTAAAAAAC ATTCAATACT TTCAGTATAA
 199601 ATATGTTAC CTTCCATTAA AGGCTGGCCT CCCGAAGACA GCAACTACCC
 199651 CACATGTTCA TGCACTTGA TCAGTAAAC CAAATGGCTA CTACTTTCC
 199701 AGTCCTATTT ATTCAACCTT TCACCAATTC AGTGTCCGAA TTGAGCACTT
 199751 ACTAAGTGCC TAGCTCTCTA CATGAATTAT CTCATGTAAT CCTCAAAGCA
 199801 ATCCTGTAAG GGGCAATCCC GTAAGGACCA TTGTTATCGT CACTTTAAA
 199851 TAGGGAAAAG AAGGTGGAAC CTTGCCTGGG CTCACACAAC TATCAGCTGT
 199901 GAAGGAGCAC AGGACTGGGT GGAGGCCAAG GTTTTACTGT GTTACTGTGT
 199951 TACTTGAGAC CCAGCGGGAT CAACACAAGT ACCGTAGGAA GTTCTGTTGC
 200001 AGCACTCCCC CTACCCCACC CGGCCCCCGC TCCACCCCCG CCTCAGTGAA
 200051 GAGGAGCTGC ATCCTCAGCT CGGTCACTGC CCCCCACAGCA GCGTGGCCTC
 200101 TGGCTCCAGC CCCTCTCCC TCTGCTCCAC CAGGGACTT TCCCAGGAGA
 200151 AAGTTCTCTC TGTCTCAGTA AGTCTCAGTT AAGTGGCTTG GAGCCTCACG
 200201 TTCCCTGCCCT TCTGGGTCT TTTTGTGAGG CTGGGGCTC TGAAGGAAGA
 200251 TGCCCCCAGGC AGAAAGAAAGA GATGAGAGTC CTTGGCAGCT CCCTCAGGTG
 200301 ACAGTTGGTTA CTGCAGGGAT TTGGGTGGTA TTGAGAAAAT TATCCAAAAC
 200351 TTGGGAATAA GGGAAAAGA GGGTGGCAAG TCCTCCCTCT GGGACCTTGT
 200401 TTACTAGATC TGCCCAAGGA TTACTTAUTG ATCCAGGCTA GAGGGTTACCG
 200451 TCTTTGTTCA ACTCACAATT TGCGCCTGAT TAAAGGCCCA GACTGTGCA
 200501 TGACATGTTA ACTTGACAT TTGTTCCCAG TAAAAATGCA CATGGTTCTT
 200551 TTTGGTGGAA AAGAGAACCC GAAAGTTGT GGTTTCTTA CCCTGCAGAT
 200601 CACTCACCTA CTGTGTGCCCT AGCCTAGGCA TCTCATCCCA ACCTTCTTTC
 200651 TCCAGTGCCTC ATGTGGCTCC TCAAGTCCTC CTCTGAATCA GCGTCTGCAC
 200701 TGTGGGCTCT CTCATTAAGA AAGCAAACAC AGCTTTAACAA TATGCTCA
 200751 TTAGATTATC GTGACAGTC CATTGTTAAC TTTTTGAAAAA GTATGCTTTG
 200801 GCACATTGTGT TTGGTGTTC ATCTTCAGCT GTGACAGAAA ATAACCACCT
 200851 CCAAAAGCCG TGCCCAGGGA CATTAGACAA TATGTAGAAA CCTATCTGTG
 200901 CTTTGGTTTC ATACAAATTG GTTACATAGA AACTCTTTG GCAGAATTGA
 200951 CAGGCCTCCT GACAGATGAA AGGTGTTCTT TCTCTTTCT TGTTCCAGGC
 201001 ATTTCGACT TTGAAGTCAA TTGTCAGAC CTCAGGTTAG GATCTGAAA
 201051 CATTATGCAT GGCAGGTTGC ATTACCTTC AGCAATGGAT AACCATGTGT
 201101 TTCTGTTGAG CTTTGGGATT GGAGAAATGTG GTCAAGTCTT TCAGAACTGG
 201151 TCAAACGTCT TTCACTCAAGT GCACAAGCAC CTCAGCCTAC AGGCTGTGCT
 201201 CACCGGGTGA GTTGAAATC ACCTGTGGTC ACTGAGAATA CATCACATCT
 201251 GCCCAGCAGT CACCTGTCCA GTTTCAGGCA AAATAGCAGG AGAGGAGACA
 201301 GGGAGGTGAT GAAGATGGAA ACATCATAGT GGGAGGTAAG GGGCTTAATG
 201351 GCCAGGTGTC CATGCATGAC TAGGAGTGGG TTTGGGCTG TGATGTTCAC
 201401 AGATCCAAGC AGGGCTTCCT TCTGCAGCCC TGTAAACCTC CAGCCTTTAG
 201451 AGAAGTTGCT ACTTAGGCCT CTAAGCTATG TGTCCCTGAG GTGGGTGAGG
 201501 AGCAGCCATC CTGCAGGCCA GGGTTGCTGA TGTGTGGATG TATCCTGATG
 201551 TTGGAGAAGC TCACACTATG GACATCTAGA TCCTCCAGGC ATGAGTTCCCT

201601 TGAACCTGAA GCAGAGACCA TATCACCAGC TGAGCAGATT ATCCCAAGTT
 201651 CAAGGGATTG GGAGT GAGAC TGATTCAAAG CTAGGCTCTA CCACCTACTT
 201701 GCTGTCTAAC CATAAGGCAAG TCACTTGACT CATGTTTCTC AATCTGTAAA
 201751 ATGGGCATAT ATT CATGCCA CAAATATGTG CTGAGTAGGG CCTCTGTGTC
 201801 TACTTAATAG AGCTTTAAGG AGGATTAAT GAGCAGCAGA TGAGCTCAT
 201851 GATTCTAAGA GTTCTAGCATG GTGCCTGGTG GGCCTGCCTC AGTAAATAAT
 201901 AGTCACCTTA CACATGGCCT TCTCTGGCTG GGTGTTAACAA CACACATGTC
 201951 CTTGGGAGGA ATTACAGATT CTCATCCCCA CCCTTGAATA TAAATGAGGC
 202001 GTTACAGGGT GGAGGTGGAC CTGACGCAGC CCCGGCATCC AGGGCATCTA
 202051 GGAGTGTGGA GGCCTCACC AAGGTAGCCT GTAGTCAGAG CTCAGAGAGG
 202101 GCTGCTCTCT TCCCACCAGC AGCCCTGAGG GGTGCGAGA GTTTCTGGC
 202151 CTCTAAAGGG ATAGACCTCT TTCAAGCTGGG AGGGCTGAGT GTGAGGATGG
 202201 CAGGGCCTCA CCCCACTTC CAGGTGGGAC AGTTGGGAG GGTGAAACTT
 202251 TGCATCTGCG TCACAGCTCC CTGAGACTG AGTCTGCCTG GTGATGTTA
 202301 CCTTGGAGCA GGGCTTAGG AGCCAGGCT CTTCTTAC CAGGCCTCCT
 202351 CTCCCCTGCAT GCCAGGTTCC AGGGCACCCA AGGGTGCCTC ACTCTCTCCT
 202401 TCCCCCAGGT CTCTGCCATC TTCAAGCTCA GGTCTCAGGT CTAATCTCAC
 202451 CTCCTCAAAG AGGCTCCCT GACCAGAGA AAGTGTGCC GCTGCAGCAC
 202501 CCTGGTTATT TCCCTCCTCG CATTAAACAC CATCTACACT TGTCTTGT
 202551 TTTTGTGTC CAGTTCACCC TCTTGTGTTG CTTCTACAC TGTCTGTTA
 202601 GTGCCCTGAG GATAGGAGCC TATTCTGTC GAATCCTCAG CACCTGGAAT
 202651 CGGGACTGGC ACATAGCAGG TGCTCAGTAA ATATTGTTG GTGAGGATAGA
 202701 TAGGGGAGGA GCTGGCAGGC AGGAACGTGG GAAAGTCCCC GTTGTACCA
 202751 CCCACCCAT CTTAGGGTAG ACATGGCACG GGACTGGAGC GTGGGGCCTC
 202801 TGCCTGGTTC TCACACAAAC CTGAATTCTG CAGCTGCATA CCAGGCACCTT
 202851 GGGTGGTTTC TGCAATGAGA GAGTCGACAC TGACAGGCAC TCTCTGTCCC
 202901 TGGACCACCT TGCCACGTGT GAGGGTATAA GTTATCTTAA AGCAGGGGAAG
 202951 AATACTGGGA CCGTTATGTC CAATCCCTGG ATGCGCACCC CACATATCTG
 203001 CACATGGCTA CATGTACATG GCTCTCCGC AGGCAAAAGCC TCGCTCTGGG
 203051 TCATTGAGAA ACCCAACCAT GACCCCAGGC GAGGGCTGCC GCTCCCCTGT
 203101 GTGTTGGTGT GTCAGTACCT GGAAGATAAA GTATATAAGG CCATGTGTA
 203151 GGGCTGTATC TGCCCATGGG CAGGCACCTG GCTGGACAAG TACCTCTGTC
 203201 TGCAGAAGGT GGAGACAGCT GCTGTACTGG GCCAGGGTTC GTGGCAGGTG
 203251 GCAGATGAGG TTCTTGAGGT TCTTGATGCT GCACACACTG CCTCTGGTCT
 203301 TCTGCATTCA CGCCTTGCTC TTTTCAGCCA GTTTGGGCT TTCCAGTGAC
 203351 TGCCTCCTCA GAGCCAAGCC ATCACCTCAT TGAGGCTCA TAGTGAGTTG
 203401 GGGTGAGGTT GTGGAATTCA GTGCTAGGTC GTGTGCTGGG GGCACGTGACA
 203451 GCCTTCAGGA GCAGGCCTAG GCAGAACATC TGGCTGAGAT GGGAGCAGGG
 203501 AGCTCCAAG GCCTGGTCAG GAGAGACAGG GCTGTCATCA ATAGTCAAGC
 203551 TGGAGATGAG GTCTGAGACA CAGAAAAGCT GTGTTGGAA GAAACGTGCCA
 203601 GCAGGCCGCT GGCACTCCAAG AGTGGAAAGAG CTCGTTGGGTT TTCCCTCACT
 203651 GCCACTTGGG GCACTGTCCC TGAGAAGGG GAACACTGTTA GTTTTCTTTG
 203701 GGGCCAGGAA GCGGTTACAG AGGCTGAGTC AGTATTGGA AGCAAAATTA
 203751 CCCAACTGTC TGTGCTCTTG GTTGTGGCTG GCTGTGGGAG AACAAACGGAG
 203801 GGGCTTCCCTG CTCCATGTGG ATGTAGACTC ACTCTCTCTG GGGCCCATCT
 203851 CAGGACTCAG CCTCTTTTA TGCCCTCCAC CGGGGTCAGA CGGGCTTGCC
 203901 TTCCACAAAC GCTCAATTAC ACCACCTGTA CCTATCTATG CTCCCAGTTC
 203951 ATGGCAGTCC TGGGTCTGTG ACATTCTTAT TGAAAATCCT TATTCAAGATC
 204001 ACAGAGGGAG TCTTCAGCAC CAACTGGTAC CAATAGACTC ATTTCTCTG
 204051 CCGCCATAAT GTTAATGTAA CTGTTCCCAT TTCTGACCAT GTTCAGTAAA
 204101 TTTAATTGTT GTGGAAAGC AGCTTATTG GCAAGATGAT CAGTTTTAA
 204151 CCTGAGTAAAG TGGCTTCTT GATGACTATA AATTAAGCCC ATTGTACTTT
 204201 TCATGCATTG TGGTTGTCTC CATAAAATACT ATAGGCAGTT GCTGGTAGTC
 204251 TCACTGGTT ACCTTTCCCA TTACTGTTT ATCATCATTG TGGTAGGAGT
 204301 GGGGAATTCA TTCTGTTTA ATGACAAGGA GGAAGTGGTA ACAAGGGGCT
 204351 TGTAAATGA GGAGCCCACC CCTGGGTCAAG CATCTGTGTA GCTGTGGATC
 204401 AGATTCTGGG CCTTACCCCG CCCGGGGTAT CTCAGCCCT CTGTGGGGCC
 204451 ATTGTGAAGG GCATATGCAG GGCCTTCATG CTACTTTGT CTTAATTGCA
 204501 AGTAATCAGG AATCAAATAT TTGCGACAG CCAATTCCA TGTCAAGGGAG
 204551 AACCTGAGTG TTCTTGACAA CTTCAGCAGC CACAGGTTGG CACCAGTGT
 204601 TCCTTAACAC TGACCCCTCA GAGTGCAGCC TGCAGGGAG GCCATGGGAG
 204651 CCTCCCCAGC AAGTTAAGCA AACGTAGGTG CCTGCTGCC TGTGTGACGC
 204701 TGGGCCTCAG AGGTGCTCAC TACCATCTGG ACACACAGCT TTCAAAGGAG

204751 GGGGTCAGGG AAAGTAGCTT CTCCCCCAG CCCCCCATGA ACTGGCTTTG
 204801 GTTGCCTGC CTGGGATGGA GTAGGTGGTC TCTGAAGCCC CTTCCAAC
 204851 TGCTCTCCA GGATTCTAGT TCTCTTACT CCAGAAGACC CACCTCCACG
 204901 GACGTCCATC TTCCCCTCAT ACCTCCATCC TTCCACTTCC TTCCTGCCA
 204951 CTTTGGAGAA GGCAAGGGAA AATGTACCCC TACCGGGTCA ACACATGTGA
 205001 GGCTTCACCA CCCTCCCCAT CCGAGCCCC AGCCTGGCTT CTTAACGTGCA
 205051 CTGAATTAGC CTTCAAGGAGA TCAGTTCTGA AAATTCTGC ATTTCTTAAA
 205101 ACCTGAGTAT ACTGGGGCCA CACGAGGAGC AAGGCCTAGC ACCTGTGGGA
 205151 CCTCCTGAGG CCAGAGCAGG GCAGGCACCTT TGGGCTAGGA GGATTCAAG
 205201 AGGGACACTT GGACTTGGGC TGGTAGCAAG CACTTCATAG AGAAAATGCC
 205251 TACAACAGTG ACTTGGAGCT GGTTAGCCA GAGGGAGAAA GCAATGGGGG
 205301 CCAGGGCACA CGCTCTGAAG CAGGCTCGGA GAGGCCAGGG CACAGAGACT
 205351 TTGCCTCTTG TTCTCTCAAAT ATGGGCAATT AGTGGGTTGC ATCCTATCTG
 205401 CATGGGAAGG TTATTAAAAC AGTGTATCCA TGGCAATGCT CTGCCTCCTG
 205451 GCCCTGTCTT GGGAGAGAAA CAAAGGCTGA TATTITCAGA GCTGTTAGTT
 205501 TCTTCTAGTA GGGGCCAGCA CTTTCTAGGG TAACCCATT TCCAACAAAC
 205551 CAGGAGAAC CAGCTAATCA AATATGCTCC ATGGCAAAGC GGCCATAAAC
 205601 ACCGTGAGTG GGGGGCCTCC AGGCCAGAGC CTCCCTGCCA GGCGCCTGCC
 205651 TGCCCTCCCG CTCCTCCCT CCCCGCCACC ATCAACCTTG ACAGGAAGGC
 205701 GTGCAGAGGG GCGCCTGAAT GCCACTGGGC CTTCATGGTG ACATGCGAAC
 205751 ATTAGCAAA GTGGATAAAA GAGATTCCCG CTCCTCTAGG ATCTGCACTT
 205801 TTATACTGCT CAGAGATATT TGACCTTCTA GTTTATTATG ATTCAAGAAA
 205851 AAGTCATAAC TTCTTAGTT GCCAAGGCTG GAGGAATTAA ATGAAATTAT
 205901 TGAATCAAGC AGTTAATCTG CCGATAACTG ATTTTTTTTC CTTTCAAATC
 205951 TGTAATGATG AAAAGCAGAC TTAACCAAAA ACAAGAAAAA TATATTTTT
 206001 TCTTTTTTTT TTCTTCTTT TTGCTTAGAC ATTTTAAATCC CATGGGTAGG
 206051 AGCCGGGGCT AAAAGTTGG TCATGATTAC TAGGGCCATT CTGTCTTGCT
 206101 GAGTATTTG ATGGAGATT AATTAACACT TAAAGCAAAG TCTTCTGAGG
 206151 CTGTAAAAT CTGTATTACAC ATTTCACTTG TCTTTGGTG TCCCTGTGTA
 206201 ATTCTCAACT TTCCATCTGT ACCTTTAGTG ACATGTGCTG ATTATCTCAT
 206251 TTCCAGACTC CCAGAATGCA GTGTGATGTT GGTGATGGAC GCCTGTTCG
 206301 CCTTCACCTT AAACGTGCC CTTCCAGCTG CCCTGACCTC TTGGTGTG
 206351 GAGCTCTGGG TGCTGCTGCC TGAGATCACT GTGGGTGTTG TAGGGTCAG
 206401 GGGACACTCA AGCAATGTGG CAGGCCCGT TTCCAGGGGC TCAGCCTCT
 206451 TGCCCATAAC TGCAACATTG TGCTAGAAAG GACTGGGCTG TGGGAAAGG
 206501 CTGCTGGTGT CTCCCTGAT GACGTGTGTC ATGGAGAAC ACATTCTCCC
 206551 CCAAGGAAAT GGCCAGCCTC TGGTCTCCCT ACCTCGGCTA CCCCCCACCC
 206601 CATCCTGAAC ACTTGGAGCA TGACTTTCTT CTTATGCCAC GTTCCCTCCC
 206651 TGCAGTGACT CCCCCAGTGC TACAGTAGTG TACCTAAATT TCTCTGCTTG
 206701 GCTCTCAAG TCTCCCAGAA ATCACACCTT GACCCCCAAC CCCACCACTG
 206751 TACAAAACCTC CTACTCACAT CTAGTCTCT ACCTGAGACC TGCACATGCC
 206801 ACCCACAGGG CGGCTGGGG AGTCTTGGCT CAAGCCTGCT GTGTTCTGG
 206851 GAAAACCTT CTCTCCCTTG CAGGGCCAC TGGCACATCA CCCGCTCCAT
 206901 GATCTCCGGC ACTCCCAGTT ACTTCTTCCA AACTTAGCTC CCTGGCTCCC
 206951 ATGCTCTTTG CCTGATCTGC ATACATGTCA CCACCTTACA GAATGACAAA
 207001 GTCAGAAAGA GGGAAAGGT TGACTTGTTC ATCTTGAGA CCCCTAAGGT
 207051 GCCTAAGACA CAGCGGGTCA CAAAGTCATG ACATAGTAAA GGAAAAGAAC
 207101 GAAGGAAGGA AACAGTATTG CAGGCAGGG GTGGAGGGG CCACTTTTT
 207151 AAAAAGTCAT TGATTTAAAT AGGCCTCTAG TCCAGGAGGC TGACTGTGAG
 207201 CCTGGGAGCA GTAGTGGCAG GCTTTGTCTT TCTGTGTAAG GTGCTTCTTT
 207251 GTGAGCACGG AATAGCTGGG TGTTTTCTATT TTTCAACTGG AAGCAGGAAA
 207301 AGTAAGCCTA AGAAAGAACC AAGAGTTGAT CAAAAGCCCC CAGCTGGGTC
 207351 CTAGGTGGA AAGGTGTTGT GTTTCAGATG TTCAGAGTGA GTCAGCCATG
 207401 AAACCTGAGC TCTGCAAGGC AGGACACCCCT TCTTGGCACC AATGACCCACC
 207451 TCATGGAGGG ACAGGGACTC CCTAGGAGAC CCCAAGCCCC CAGGCCAC
 207501 CTTGAGTAGC TTGGCTGCAC AGGCAAATGG AGTCTGTGCT TGTGAGCTAC
 207551 AAAGGAAGCC CTCGACCCCCA GACCCCTGTA GTGTTACAG CTGACCCCTCT
 207601 GTGTTTGTGT GTCTGGCAGG GCTTTCCAGC CACAACGAGC TGCTGGCCTC
 207651 CTGCGGGAAAG AAGTTCTGCA GCCGAGGGAG CCGGTGCGTG CTCAGCAGGA
 207701 AGACAGGGGA GCCCGAATGC CAGTGCCTGG AGGCATGCGAG GCCCAGCTAC
 207751 GTGCCTGTGT GCGGCTCTGA TGGGAGGTTT TATGAAAACC ACTGTAAGCT
 207801 CCACCGTGT GCTTGCCTCC TGGGAAAGAG GATCACCGTC ATCCACAGCA
 207851 AGGACTGTGTT CCTCAAAGGT AGGAACAGGG CCCTTGCCTC GTGGTTTTGG

207901 GTTTTGTGAT GGGCTTCCA ATGCCTTTT GACAAGTGAC CTGGGTGCTG
 207951 AGTCTACAAG TTACATATGT TTAGGAAATA AAGACAAAGA CTGGTGTGTA
 208001 ACAAAATAGC AGCAGTGGCA TTTGGTGAT GCATACTCTG TGTCCCACCT
 208051 CCAGAGACCC CTGCCCTTAG AGGAAGCTCC TTGGGGAGTA GAATCCAGGC
 208101 AGGTCAAATT AAAACCTGGC TGGTACAGGT TCACTAGGGA CCAGGCAACCA
 208151 GGGCACTACC CAGGTCTCCA CATAGGACGG GCCTTGCAA GTTGTGACA
 208201 AGGACCATGT TTACCCCTCT GCACAGATC CCATGAATCA GGAGGCTGTG
 208251 CTGTGCATAG AATGTGGTCA GGCAACACC AGCGCAATGT CTTCCAGCGT
 208301 GACAAGGACA CAAACTCTGG CCTGGGAG TTGTTGATGG GAAGGCATCC
 208351 CATGTCTTGC CTGTCCAGAA CACTCTGAG CAAGACAAGG AAGCCCCCTGC
 208401 ATGGACATCA GAACATGTCT GTGGAGCTGG GCCAAGGAT TCATGCTTTA
 208451 GGCTGAGATT GAGTCAGAAA AGAAGGGAAG TACCAAGCTCC CACTAGACGG
 208501 TAAGAACCAT TAGGGCAGCG GCTATGGCTG TCTTATGCGC TTATGTTA
 208551 GCACCTAGCA CTGTGCCCTG CACCAAGAAA ATGCTCAATG GCTCCCAGAT
 208601 GCTTGAAGAT ACAAGGGTCA GAATGCACAT CCTGGGTTGA TTGATGTGGC
 208651 CCTGGTAAT AGTACATGCC ATGGCCTGTG GAAGTATTAA TTGTATAACAA
 208701 ATATTGTGT AAAAAATGGG TATACATGAA TTAGGAAGTG TGTAGAAGAC
 208751 AGAACAGAGT TGCAGGACAGA TGGAACAGG CCCACATAGC CTGAGCTACG
 208801 AGAGCCCACT TGGAGTTATG TGAGGTCAGG AATGTGCTTT AGGTTGCACA
 208851 GGGAGGAGAG GAGGAGGCTT GGACTAGACA CCTGCAAGT GCCTGCAACA
 208901 CTAGAACACA AAGGCCTGAG AGCAGTCCAG GCTGAAAGG CCTGGGCACC
 208951 AAGTGGGAAG GGGCAGAGT CCTGCCTCAC CCTCACAGAA CCCCAGTGA
 209001 GATGGTATGA TGCTGACACA CCTGAGCGGA GGCGGATTCA TGGCTGAGGT
 209051 GGTGGAGCAA AGGTGTGTTG GCCTCCGTTA CATCTATCTG TGTACACCTGC
 209101 ACCCACCTAA TGGGCCACTC CACTCAGCAG TCGTGGCAGC ATGGAGTGCT
 209151 AGGCAGGGCA GGGCTGGGA AATGTGCTT TACCCGGTGA TGACAATAGT
 209201 CTTGGACACT TTACAGCTG TGCTTATGAT GCTATGCCA AGGTGCTTCA
 209251 GAGATCATGA GACACATTAT GGAAATGAGG CAAAATGAG CCTAGGAAAA
 209301 ACGTCCCCAT TCTGGAAGGCA CTGCCCAGCC ACGTGCCGCC AGTCCTCTG
 209351 CAACCGTGCA CACTAAAACA CTTGACCAGT TGCTCCAGCT TTATTGGCCG
 209401 TGTTGAATT TATAGACTGA TGTTCCATT TCTGGTTTCC AATATCCTTC
 209451 AAATTGCATC TTCTAAAGG TTTCTATTTC TGCATCAGAG TGTGCACAGC
 209501 CTCCCTCACC ATTGGTTATT CAAACAAACAT TTCTCATTAA ATGGGAGGGA
 209551 AAAACCAAGCC ACCACAAAAC CCACCGAGGT GAGGAGTGT GGGGACAAGC
 209601 TGGCGTGGAG CGGGGGGCAG GCAGCCTTGA GCAGATCAGG GCTCAGTTCT
 209651 GCTTCATGCT GATTGAATT ATCCACCGAA CCCTTCTGAC TCATTGAGGT
 209701 TTTCACACAT TGTGAGTTGC CGCCCCTTG GTATAGCAGT GCTCCTCTCT
 209751 TAAGGACCCC TTTTGGTGG AGAGTGGTGC CTGTGAGCTC CCAGAAAGAC
 209801 CAAGGGTGC ATCTCAGTTC TGGTACTTCC CAGCTGTGTG GTGTTGGTTG
 209851 CATCACTCTG CTTCTCTGGG CCTTTCTCTC GACTGTAAAA TGGGACTAAT
 209901 GGCAGTACCC ACCTGCTGCA GCCATGGAGA GAAGTGAAGG AGGGGCTGCA
 209951 CAAGCACCCAC TTAGCACGCT GCCTGGTGC TGGCATGGAT TTGGTGTTC
 210001 TGAGACCTGC CATCATTATT TATTCTAAC T CAGCGTGGCC ACAGGCCAG
 210051 AGTAGAGAGA TGCACAAACT GTGAAGAACG CAGAGGCAGG AGCAAGGGT
 210101 CTGTCCTGGG GTTTGGGGA GAGATTTCTG GGCCCAGATT ATTAAATGGT
 210151 AGCTGGAGAG TGGTAAGGA AGACATGAGT GTCAGGCAGA CACTCATTGC
 210201 TGGGGCCTCT CCCAGCAATG TCCACCTGA GCCAGGGCTT CTCTTCTGC
 210251 AGATGGCCTC TTGGGTCTGG ACTCCAGTGG AAAGCCTTCA GAGCCTCAC
 210301 CTCAGGTCA GCTGTAGTCC TGGTGGGAGG GCAGAACAGC TGGGCTGCCT
 210351 CTCCCTGATC ATTCCCCTAG GGAGTGCCCA GCAAACAGGA AAGACCTGGG
 210401 CACTGATTCA CAGGAGCCTG ACGGATGGAA GGCAGGCCAG CCCTGAGGTG
 210451 AGTGCCTTGG GGTGAGCACG TCACCTTCAC CAGAACCATG GCTCCAGGG
 210501 GGAGTAGAAC GAAATAGATG ACAGAGGCTC TGTGGGAAC CTCTGTGGGG
 210551 ACAGAGGGTC CTGGAACAAA GGAGGATATA AAGAACAAAGT TCCTACAGTC
 210601 CCCACCCCCAC AATGGCAGCA GAATATTAA TAACAGCTT AGGTCCACGA
 210651 ATGACAGTTT GTCATTGTC CCAATTTCAG AGGGAGTTAT TAATACAGGA
 210701 AACAAAAAAA TACCTGTTT TTCAATGCAAG CAAAATTCCT AAAATCATCC
 210751 ATCTTCATT CTCTATTCT ATCAGACTT ACAAGAAGAA GTTGTGACTT
 210801 CATTCTCTGG GACTTTATCT GTCCCCAGAA ATCAATATTA GGACAAGTCC
 210851 TTGTGCAGCT GGAGTGTGTG GAGCAAGAGG AGAGAACGTGA TGGGTTGTGC
 210901 TGGGCTAACGC TGCTACAGTT CAGAGCTCCC GTCTGTGGCC AGAGGCCCTG
 210951 ATTTCTGTGAGGGGGGG TTCTCCTGAG GACTGGTGGGG GGGACACATA
 211001 GCCTTCACCA CCCTGCAAGG GAGAACAGGC AGCATTCTAA ACCCATTAC

FIGURE 3, page 67 of 188

F02 F03 F04 F05 F06 F07 F08 F09 F10 F11 F12 F13 F14 F15 F16 F17 F18 F19 F20

211051 AAGAAAACCTT CTGGTATCAC ATTCCAGTTG CTATGGCAAT GGGATTCCCT
211101 GTGAATATAA AATGAAATAT ATCATTAGG GATCATTAGC ATGTACGGGA
211151 AATCAACCAG ACTCAAAGG ATTGCTGCAG CTAGAGTTA CAGCTTGAT
211201 CCCAGATCTC CTGAGTCACA AGCAGGGTCT CACTGAAAGT CTGGACAA
211251 AGGAGGTGTG GGAAAGATGT ATCTCTTCTT GTAGCAAAAT TAGACTACA
211301 TTTTCCTCA GCACCAAATC CTACCAAGAG AATGCCAAGA TATTGGTGG
211351 ATTCACGTG TTAACCTCTT ATAGAGTTG TGTTTCAAA GTTATCTTGT
211401 GACATCGCAT TCCTATTGT GTATTAGTTG GCACTTTAA ACTCATTIT
211451 CTTGGTTTTG AATTCAACGCT TTATCCTCA CGCTGTTCAC GAAGATGAGC
211501 TCCCCTTCA GCAATCACT ACCAACCGAG CGTTGTATTA TACCAAGATGA
211551 TACAATGTCA TAGTTGGCA GTTTTCAAA CAAACCATGA AATTATGGAA
211601 GAAAGGGGAC TGTAGAGGT TCTGTTTAA GGGGGCCCTT CAGCCTTCCTC
211651 AGCCTGGGG CGGGTGCAGG TGGATTGGG TGCTTCAGAG GGGAGTTCCC
211701 AACCTAATGA AAGACAGGAA ATCATTCCA TTTTGGAAA CAAATTAAAC
211751 ATACTACAGG CTCACTAAGA AATCTTTTT TCTTACTTGT TACTAAGCAG
211801 ACATAAAAAC TCAGTATTTT GTTGCAAGTT AGCAGAGCAA ATAGAGCTTC
211851 CTGCCAAAGA GCCATTTTT TCTTCTTCTT CTTGTTATTT TGTTGCTGTT
211901 GTTGTACTC TGAGTCTTGT TACTTTAGGA ATTTAAATTG GGCCCCACAC
211951 CTCCAGGGG ATTCTATAC TTCCACAAAGT ATTCTCTGTC CTGCCAGGGAA
212001 AAGCTCTTA CATCCCCAGC TTTCAGCC CAGTCCAGCT CTCAGCGGGAA
212051 GACTCACTC CTGGGATGTG TGAGATCCAG CTGCAGGGCT GTGATGCTGT
212101 CAGGCATTGA TAGGGGATT TGTTAACTC TGCTGGAGCA GTCCCTATAG
212151 CAAGAGGTGC TGGGGCTGTG GGAAGCATCA GGGAGGCCA GGCTGATGGG
212201 ACAATGTGGC ACAGTGTCAA GGGCACTGCT TTGGCACGTG AGCTTTCTGT
212251 GCCTCATTTA CTTCATCTGT AAAATGGGA TAATAACAGC ACTTACCTCA
212301 TAGAGTGTG TGAGTATGAC AGGAGCAGCA CCTGGCATGC AGTGGAGCATT
212351 CTTCTCTACG CAGTGTCAAC AGCACTAGGG ATGATGCTGG TGCCGTTGTA
212401 ACATCACGGC TTATTCAAGG AGCAGATGCA ACAAGCTGTA AGACCCCTG
212451 CCATTTATGT GACAACCTCTG TAATGAGCTA AGAGGTCAGG GGTGGTGGGT
212501 CCTCCTGTGA ATGAGGGGAG AGAAGAACAT TGGCCCTCCA TATTTATTTA
212551 ATGAATGACT AGAATTGAC CTCCAGTTGA TCAAAGTTAA TGATCACCTT
212601 CTCTGTCTTG CTAAGAGATG TAAGGAGCA CCCAAGTTCA TCTAGCAGGT
212651 TAGTAGAAAA GCAAGGGGAG AATCAGGTAT CTCTGATCCC CAGTCTGGAC
212701 AAAGCTCTA GAATGTACCT CCAGGCTCTC AGGAAATGCC AGTGGAGCCT
212751 GGGGTAAGAA TTCATCTGCC TGAAGATGAG AACGTTAGA GAAGGTGCTG
212801 GAGGAGAGGG GACCTTCAAG GTGGATTTC AAGAGCAAGG GAAGGTTTGC
212851 TAGGTTGAGA GTGTGGGAA GGCTTCTAG GAGTACAGGC ATGAAGTACC
212901 TCCAGTCTCC GGGAGAGCA AGTGATTATG GGATCCTGGG TGTAGGGGAG
212951 AGCATAGTTG GGGATAAAAGG CAGACAAGTG GATCACAGCA AGCTGGGGAA
213001 AGGCTTGTG TGCCAAAGCAG GGAAGTCTGA ACTCAAGCTG ACCAGTGTG
213051 TGTCCACAAT TGTTGGGTC TTGGTCTCTC TGACTTCGAG AATGAAGCCG
213101 CGGACCCCGC CGGTGAGTGT TACAAGTTCT TAAAGATGGC GTGTCCGGAG
213151 TTGTTCTTCT TGATGTTTG GACGTGTCTA GAGTTCTTC TTTCTGGTGG
213201 GTTCTGTGTC TCGCTGGCTT CAGGAGTGAA GCTGCCGGACC TTGCGGGTGA
213251 GTGTTACAGC TCTTAAGGCG GCGCGTCTGG AGTTGTTCAT TCCCTCCCGCT
213301 GGGTTCTTG TCTCGCAGGC CTCAGAAGTG AAGCTGCAGA CCTAAGGCAG
213351 TGCGGACCA AAGAGTGAGC AGCAGCAATA TTTATTGCAA AGAGCGAAAG
213401 AACAAAGCTT CCACGGGGTG GAAGGGGAC CAGGTTGCCA CTGCTGGCTG
213451 GGGCAGCTG CTTTATTCC TTTATCTGGC CCCACCCACG TCCTGCTGAT
213501 TGGTCCATT TACAGAGAGC TGATTGGTCT GTTTTACAGA GCGCTGATTG
213551 GTCCATTCTG ACAGGGTGCT GATTGGTGTG TTTACAATCC CTGAGCTAGA
213601 CAGAAAAGTT CTCCAAGTCC CCACTAGATT AGCTAGACAC AGAGCACTGA
213651 TTGGTGCATT TACAAACCTT GAGCTAGACA CAGGGTGTG ATTGGTGTAT
213701 TTACAAACCT TGAGCTAGAT ACAGAGTGCT GATTGGTGTG TCTACAATCC
213751 CTTAGCTAGA CATAAAAGTT CTCCAAGTCC CTACTAGACT CAGGAGGCCA
213801 GCTGGCTTCA CCTAGTGGAT CCCTCACCGG GCTGCAGGTG GAGCTGCCTG
213851 CCAGTCCCAGC GCAGTGCACC CGCACTCCTC AGCCCTTGGG CGGTCAATGG
213901 GACCTGGTGC CACAGAGCAG GTGGCGGCGC TCGTGGGGA GGCTCGGGCC
213951 ACGCAGGAGC CCACAGTGGT GGGGAGGCTC AGGCATGGCG GGCTGCAGGT
214001 CCTAAGCCCT GCCCTGCAGGG GAGGCAGCTG AGGCCCGGCG AGAATTGAG
214051 AACAGCCCGG TGGGCCGGCA CTGCTGGGG ACCTGGCGCA CCCTCCGCAG
214101 CTGCTGGCCC GGGTGCTAAG CCCCTCGCTG TCTGGGGCCA GTGGTGCCAG
214151 CTGGCCGCTG TGAGTGCAGG GCCCCACCAAG CCCATGCCA CCTGGAACCTC

FIGURE 3, page 68 of 188

214201 AGGCTGGCCC ACGAGCGTCA CACGCAGCCC CAGTTCCCGC CGGTGCCTCT
 214251 CCCTCCACAC CTCCCCGCAA GCAGAGGGAG CTGGCTCCAG CCTCGGCCAG
 214301 CCCAGAGAGG GGTCCCACA GTGCAGCGC GGGCTGAAGG GCTCCTCAAG
 214351 CATGGCCAGA GTGGCGCCA AGGCTGAGGA GGCGCCAAGA GTGAGCAAGG
 214401 GCTACCAGCA TGCTGTCACC TCTCAGTGT AGATAAGCTA CTGCAACATT
 214451 CTCATTCCCC AAAGAGGGAC CGTGAAGCCC AGAGAGGGCT AGTACCTGTC
 214501 CCAAGTCACA CAGGCAGAGC CAAGCCAGGG CCCAGCTTT GCTGCTGTGG
 214551 CAGGCCCTTC AAAGGCACCC ATAGCTTGT GGCTGTTTT AGTAGGGCT
 214601 CAGCAAGGCA TGTCCCTAAC AGATGCAATT GCTTATGCT TCTTCCCCAG
 214651 GAGACCTCCT GGTGCAGAAG GAAGGCTCAG GAGCCATGGG CAGTGGAAAG
 214701 GGCCTCGTGT GCCACTGCTG GGCGGGCTT CCCTGCTCCG CAGGTCTTA
 214751 AGAAGCCAGC TGCACCTTCT CCAGGGAAAG CTGGCTCAAT CATCCCAAAC
 214801 TCACAGAGCT TCTGGACATC AGGAAACCAG ACCCTGTCT CCTTCTAAG
 214851 GAAAGAGTAG GAAACTGAGG GATACCCAGA AGGTTACAG GGGAACCTGG
 214901 GGTCAAAAGC AGGCAGAGCC TCTGGGGACA AGCCTACCT CAGCCTGGTC
 214951 TGGCCTTGG AAGCTGGCCTC CACTTTCTCT CCAGACTCCC TTTCCTGTCC
 215001 CTCCAGTTGC CCTTCCACTT CTGGGCCTAC CCACATTTCT GTCCAGTAGC
 215051 CGCTGTGTT CTTCACTGT TTGCAAAGGG ATCTCTCTGT CCCCAGCCCT
 215101 CTTCTGGCC TTCACTTTAA GCTCCACAGA AGAGGGTTTG GCTGTTTCT
 215151 GCCAAGCCAC TCACCTTCAC AGACATCTGC TGAATGCCA CTTGGTCTA
 215201 AGGCTGTGCC AGGACCTGAG GATACCAGTA TGATCAGAAC ACCGGGCCTG
 215251 ACCTCAAGGA ATTATAGCC AAAAGAAACG CCACACATCT CCACCCCTG
 215301 GGTTATCCTT TGGGAGCTGC TTTAGCCAGA GATGCCCTCA AGACCTCAAAG
 215351 GACAAACGGG AATCTTACA GACTGTCTCT CATGTGGAT ACCCTCTCCT
 215401 CACTCCTCCG CGGATTCTGT CAGCATCTGT GAAAACAAT AGGACTTCAC
 215451 TGAAC TGACA GTTCACTCAT AGCCCCGTAG TCCAGCATCC CTGGGAGCTC
 215501 AGTTGTCCC TTTACAGTAT CTGCTTCCAG GATCAAGAAA AGTGACCTAA
 215551 AACAAATATG TGTGTTCTTT GGATATTTC TCCAGGTTTG ATGCAAGGAA
 215601 CTGTCTGGT GTGAGCACCC CGCAAATGTG CAAGAATATT ATCAGTTCGG
 215651 CATGTGTGGT GTGCTCCACA GAACTGCTGT ACTTTGAATG AATTAATTAC
 215701 ATTCCAGTAA TTAAAAATTG CTAAGAAGTT ACTGAGCTGA GTAAGTCTCG
 215751 TGGTGCATTG ATTCACTTA TGGAAACAAG CTACAGCCTC CGAGTCCCCC
 215801 ACATTGTTTC CTGCTGTTTT CTGGCATCCT GTCCTCTTT CTCCAACCCC
 215851 TCCCTTGCTG TGCACTCCTC AGTCCCCTG GTTGTGGCG GCCTAGTCTC
 215901 TCTCATCTA AAGCCCAGAG GAGCAAGCTG TTGTCCCAGC ATCCTCCTAG
 215951 GTAGCCTTTC ATCTCTTCCC TGTCAGGCCG CAGAGCATT TCTGCACTGG
 216001 CTGTCTCCAC TTCTGCAACT TCCCTGAATT CTGCCCTCTA GGGTCTGCAC
 216051 CTAGCTCTG TCCGTGTTACC CCTGCCACTG ACTTTGCTAA GATCACCTTA
 216101 CCCTCTAAA TGCCAAGAAG GCACTTTCA GGCCTGGTCT TGCTGCATGC
 216151 ATCCTTCTG CAGTGAGCTC TGTCACTCTC TCTGCAACCC TGTTCCACTG
 216201 TCTTCTAGGG ACCAGCCCCC ATCCCTCTGA CTCTCCGTAG ACCCCCTCCCT
 216251 CTCTTGCACT TGCTTCCAGG TCTTCCCCCT GGGGCTCTCT TCTCACAGTT
 216301 CCAGCCATGC CTCAAAGACC CAGACTGTCC CACGAGCAA GACCCAACCA
 216351 TATCTTCATC CCTGACCTCT CCTCACGTTT CAGTCTACCT CTCATTCCAC
 216401 CTGGGATGGT CCATCCCACC ATCATCTCT GGCTGGATGA CCTCTATGGC
 216451 CTCCTAGCTA TTCTCTGAGC CCCGGGTCAAG ATGCTCTTCA AAATCCACTT
 216501 TCCATATGGC ATTATAGAGTA AGCTTCCAA GATGGAACCTT TGACCATGGT
 216551 GCTGCTCTGC TCGAACCTT CTGTCAGTT GTTCAGCAAT ATTATGTAC
 216601 TATGCGTCAG ATACTATTG GAGATGTGGG GACACAGCAG GGAACAAAAC
 216651 AGAGCCCACTT GGGGGGGAA GGTACAGTCT TGTGGGAGAA ACAAACAGTA
 216701 AACAAAGAGAT GAAGTCTATG TGATGGTGC AAGTGCCTG GAGCAGAATA
 216751 AAGCCAGGAG GGCAGTTAGC CAGAGCTCT GATATGAGAA GTGACATTG
 216801 GGCAGGGTC TGGCAGCAGGC CGGGGGGTTA GGGAGTGAGG CATTGAAATA
 216851 TCTGGGGAA GAGTATCCCA GGCAGTGGCA ATACAAAGTT TGCAAAGATC
 216901 CTAAGGTAGG AGCTTGCCTA GCGTGTGTTGG GGGCTCACAA GGGGGCCAGA
 216951 GTTGCTGGAC CAGGGTAAGT AACAGAGAG AAACGTGAGCA AGTCGGAGGG
 217001 CTGATGGGGT TGATCTCCCC ATAGGGCTCT GTCGGCCATT GGAAGCCCAA
 217051 GTTCTTGCC ACTTGGCTAT ATTGCCCTC TCATTACTCC GTGAGGCCCA
 217101 CCCAAAAGTG GCCTTGATGA GGGGAGGGAG TGACATGGAG CCTCCTCCCC
 217151 AGGCTTCTCC GCAGGAGGCT GTTGAGGAA GGCCTGTGT GGACAGGAGG
 217201 GGTGCCGGTG GCTCAGGTGC TCAGATCCAT GTGAGTGGAC CCTATGCCA
 217251 ACACCGAGA GTTTCAGAT GATCACCAGG AGCCAGATGT TTAATTACTG
 217301 GAGCAAGAAG AAGTTGATTG GGGACTCCTT TAAGGTTCTC CCCTATCGTG

FIGURE 3, page 69 of 188

217351 CCTTCAATTAGATCAAGGC CCCC GTGTAG CAGCCGCTAA ATGACACCAT
 217401 GTATTGAATC TCTGTGCTCA AGCAGTTGT CTAATTATCT GTGTGATAGA
 217451 CTCAGCAGCT GTCAGACAG CCACAACTCA AATACGTGGT CTCTGTACGC
 217501 CTGCCTCAAA GTGTTTATG CCCACTAGCA AGCTCAAGGA CAGGACTTAC
 217551 ATGCTCTTT CTAGATGTGG GATCCCTTC AGGTTCCCT GCTGCCTAGT
 217601 GATATAAGGC ATTGAAGGGG CCAGTGGCTG GGAGGACAGT GGGTACAAGA
 217651 ATTGAGCAGA GGCTGGGGG CTCGGCTGTT CCCTCCCTCG CCCCAGCCCT
 217701 TGTGCCTCGC ATGATCACTC AGCCTCTCG CCTGCTTTTC TGGACAGGGG
 217751 AGCAGTGACC CAGTTGGGC CATCTCTCC AAAGAGAGGG AGGAGCACTT
 217801 GCCACTGTGT CAAGTTAACT GAAATAATG AGGGGGATCA GGAGGCAGTG
 217851 ACCCAGGGGAGAGTAAATGA CTGCTCATCT CCATCAGCAG AGAGTGTCTT
 217901 CAGGAGTAAA CACTTCCCAG CAGAGCAGGC TCATTGGATG AAGGAGGAAC
 217951 AAGACCAACAC CAAACAACTG AATGTAAGGT CTGTGGAGTT GAGTCCTCAG
 218001 CCAGGAGAAC TGAGGGACAG AACTACAGAA AGCTGGGCC CAGCCCTGTA
 218051 CAGCATCTG GGTCTCCGGG AACCAACCCAT GCTTCTGAT TGTAGGTGAG
 218101 CTTGTGCCCA GTCTCGACC TGGGTGCCCTC ATGAGGGCCA GATCCAGAAC
 218151 ACATGTATTCTCCAGGCTAA TGAGGGAAAGA CAGAGCTTAA CAGTGAAC
 218201 TGAGTTGGA CATCTCTAG AGAGTTCTC CCTCTGCTTT TCTTCTTGT
 218251 GTGCTCATTT CTGCTTTGAT GCACTTTGAT CACTTGTAA TGAAAGTAAT
 218301 CAGAGTAAA ACTACTTTCA AAAAGCTCCT CTAAAGGAAA GTAGCAAAAT
 218351 CACTTTGCTT GCAGGTAAATT AAAATAGCCA GATGCAGTGA ACTCCGTCCA
 218401 CTTATTATAA GCAGGGTGT CTCAGTTGTG CACTTCTCTT TGTAGCTGGA
 218451 AAAAAGGGCT CATCCAGGG CTTAGCAGCC ATGTCCTTT TCTTGTCTTC
 218501 CTTAGGGAAC TTGTGCTTTC TCTTCCACTG CTTGTGTTCA GTGCACTCCA
 218551 TGCCCCCTTC AGTTGGCTAA GGTATGCCA AAGGCTGGT CTACAGTGGT
 218601 CCAGCAAATG CCTCTTGTGAG CCTTTGCCCTC CCTCACTCAT TCGGCCTGGC
 218651 TAGCTCTCTG ACTTTCTCTC CAATACACCT GTACATCTCT GTCTCTTCT
 218701 GCCTTCCCTCC ACCCCATCTT TGTCTCTGTT TCTCAGATGC TCATCCAGTG
 218751 ATCCATATTT CCATCAAAAT ATAATAAAACC CAAGGTATTT TTATAGGGAT
 218801 TTTCAGAGAT CTTTACTTTAT ATCCAGTCAG GTGGAGCTTG TACAGACCCA
 218851 GGTCTGCATG AGTCCCTATA GCTGAGACTT TAGTCTTTCC CGCGTGCAAG
 218901 CTTGTCCAAT GATTTGGGG ACCCGAGATT AGAGACATCA GAGGATATGA
 218951 AGGGCAGAAC CTTTCTGGAT AGGTGGGTGA TGGACAGGGAA AGCAGGGGCG
 219001 AGGAAGATGT CTCTTATAAA GCTACAAAAG AAGAAATACC CTAGACAAAG
 219051 GAGGAGGTTT CAGAAGGGG CACCAGGTAGA GGGGCAGGGG TGTCAAGAAAG
 219101 GGTGGTGAC ACATCATCCT AATTCCGCAG AGAGTGTGAGCT TGCTTGTCT
 219151 CCTTCCCCACC CACCTGCAGA ACTCCAGATT TTCAAGGGCG TCTCTCAACT
 219201 GTTTAGCCAT GAATGCTGGT TACAGGGAAAG TTAAGACCCCC TCTCCAGATG
 219251 CAATATGTG TGCGAGTGAC CATGGGATT AGCTGTAATT CCAGTCTGGT
 219301 CAATCTCACT GGGCTGCAGT GAGAGTAAAC AGAGGTGAAG CCTGAACAGA
 219351 CCTGTCGAA CACGAATGAA AGGGAAAGCTG GCTTCTGCAA CAGAGGAGGA
 219401 GGAGAGCACAA CACTTAAGAT GCAGCAAAAG AGCATGCTTT GGGGAAAAAT
 219451 TATTACAAGA AACAGAAGCT CATTAGAC AGCAACTGTG TTCTACTCCC
 219501 AATGCAAGAA AACATGAACCT CTGAAATGAG ATAAAAAAATG GGATTGTAAA
 219551 TTGGCTGAGC CACAGTCAAA AATAAAATGG AAGCTGGGGG AGGTAAGGAA
 219601 AGAATATAAA GAACCTGAAA TACAATTGCA GAAGTCCCTT CTCCACTTCA
 219651 AGCAGTCAAA GGAAAGATTA ACCATACAGA AATCATAGTT GTTCCAATAC
 219701 AGGGAAACAAA CTGAAAACC GCTCCCCAAA TACACCAAGA ATGAGAAGAA
 219751 GATTTAAAAA ATACTGTGGG AGAGGATGAT AGTTATGTA GACAGAGATA
 219801 AAAGATTAA AATAATAGTG ATTGGTTATC TTAAAGACCT CAGAGCAATT
 219851 CAAATGGACA CAATAAGCAA AGAGAGATCC AAAAAAAATAA GTGCCCTATA
 219901 CTGAAAGATC TATCAAATAA GTCAAAATAT AATTGCTGAC ATTTCAGGTT
 219951 TTGAAAAAAA AAATTAAGT GATCTGAAAT ATCCAGAGAG AGAAAACAA
 220001 AGCAGACAAA AAAAAAAAAG AGTCCTACCT GGTGTTGCAC TGGGGGCTCT
 220051 TGAGTGGTTT CAGCTGACCG GCTTGCCTCAG GGGCAGCTTC TCCCCTTCAG
 220101 TTACATTGTGTCAGAC ACTGCTGTGTT AGGAAGGAAA
 220151 AAAAAACATTC TTGCTTGGG CTTCCTGCG ATATTAAGAA GCAAGAAGGC
 220201 AATGAAGAAC ATTGGTAGAA TTTTGGGGTG GTAAGACCAT GATGCAAGAA
 220251 TTCTACACTT ATCAAATGGT GATCCATGTA TGGAAAGAAT AAAAAAGTATT
 220301 TTCTGCTGGG CAAGGGTCA AATAATACAC CATCCGTGTA CTCTTGGCTG
 220351 GGAAAAAAAG TGAAAGATGA ACCCTTCACA TTCTACAGAG AAATCAGAGA
 220401 ATCTGACAAA GAGGAACCTCA AGGCTTAGGT GAGCACAGAG GCTCTTGAAA
 220451 TGAGAAGGTG TCTAAATAAC TTTTCAAAT ATAGTTACCA AAAATTGCAA

220501 AGGGTAAATG ATGAGGTTAA GTGCGCTTAA TTTCTTGAC TGACTTATTG
 220551 GAATTCAAC AGATCCTGCA TAATCCTTGA CTCGGTATGT TAAAAAGCAT
 220601 ACATGAGGGC AATATTCCAT CAGAGCCCAG AACAAACCTC ATGCAGCCCC
 220651 AGACAAGTGT CCATGGCTGT TCCCAGGTGA CCTGGGAGAC TTCACCTCCT
 220701 GCCTTCACTG GTGTATCCAG AGACCATGGG AAGGATCAGC CACTGACTGA
 220751 CGTGTTCGAC CTACGGTCGG GCCTCCCGT GCCTTCATCT CGGTGGCTAG
 220801 AGTGTGCTCC CCAGAAAGCA TGCAAGGGCTA CAACTGAAGT GGAAGAAAAC
 220851 CGCAGCGGGT CATAGTGTGT CTTCTTGTG TGATGAAGCC TTGTGTTCATG
 220901 GGCCTGTGTC AGTATGCCAG TGACATGGTC AGGACAAATTG GGAAGGGCTG
 220951 AACTATTGGT TCTAATGTTG CAGTCAATAC AATGTGATTA ACCAATTAGA
 221001 GAGAAATGCA TAAGAGCCAA ATTCTGTTGC CAAGAAAAGG CAAAGAAGGT
 221051 AGAAGAGCTG CCCGTGTTAAG AGATAGAGGT AGAAGTTCAA CCCCCAAGGC
 221101 AATAAAGGGC CACCATGGGA CACAGCCTG CAGAAAAGAA GGAATGGCCA
 221151 TCAGGGTGGG GTGGATAGGA TCATGGGAAA TACACATTCT CATTCAACGGA
 221201 GAATGTGCCA GGCTGCCAGC CCACCGCCAG GGGCTGTATG GACGTCACT
 221251 CATGCACTCC TTTCTTAGT TGGTGTTCAC TGAGAGGCAA AGAGAAGGCC
 221301 GATAACTTTC CCAGTTACTG GACTTGTAAA TGACGGCACC AGTACTGGCA
 221351 CCTGCCCATC CCCTTCTAGT GTGTGTCAGT GGCCCACTCCC ATGATTAGGA
 221401 GAGATATTG TCAGGGAGTC GGCTTGACCG TGAAACCTGGA AGAGTGGGTG
 221451 GGTGGGACAT GAACAACCAG GTACAGGGCA GGGCAGCAG CAGAGGGAAA
 221501 GACTTCATGC AGCTTGCTG ATGTTATGGC TGCAATTCTT CCTCCTCCAC
 221551 CAGACTTGGC ACTTGCAACT GATCAGACAG CAGGTACCTA AAAACTCTCA
 221601 CTCCCCCTAAA GGGAAATGAG GAGAAGTTAG AGTTACCGCA GACATCAAAT
 221651 ATTGTATATC CAGTTGTTT AATGAAATGA ATCACATTAA CACCCATCTT
 221701 GTCTTGAAC TTCAGTGGCT GTCTCCACGT GGCTATGTGA CGTGACAAACC
 221751 CCAGTGAGCA CATTACAAAG GAAGAAAGTC CCCGCCAATG CCACGTGAAA
 221801 CACAGGGTGA GGGCTTCGTT GCACAGGAAG AAAACAGTCC ATATTTCTCG
 221851 GTCACACCTT TCTGCTCTC CACTTCTGCC TGGGTTCCCTT CTCGCCAGTG
 221901 TCCCCACCTC TGCCCCCTGC CAAATTTCAAG TGACATGAAG ATCTCGTTA
 221951 TGTGCCAGGC TTGTCTCAAT AAACATTCTC CTAGCAATTAA TAAAGGAACA
 222001 AACTTCCAT ATTAAGAAACT TTTGTGGTTC TCAGGGTAAA CAACTGTGGG
 222051 TATCAGGAAG ACCTGAAGAA ATGGGAAATC TATACAAAAG GAAGGCAAAG
 222101 TCCACTGCTG AGAAATGTGG TTTCTCTCTG TAAAACATGC TGACAGAAAGC
 222151 CCATATACTA ATTTAGAGAA ACAGTTGGCA CAAAACAAGA TGCAACAGTTG
 222201 AGCGTGCCTG TCTAGAAGGC TGGGAAGGAA AGAACTTGAG TGAAGGCACC
 222251 ACCAGGATTTC CTGTGGCTAT AGCCCCACCG AGACTCTGCT GGCTGTGATT
 222301 ATAATCATCA AGCTTGCAG CAAATGATTG TGATTTCACA CATCCTACCC
 222351 TTTTTAAAAA ACCAGAGATT GGATGAGAAT GGAGGGCAGG GTAACAACTA
 222401 ACTCAAAGAG CCCATGTGAC ATGCCAGGTC CAAGGCTGAG CATTCTGTGC
 222451 ACTTTCTGTT CTTTAATTCT GTGACAGGCC TTCAGGCTAA GGACTGTATT
 222501 TACCCCTAAC TTGGCAGGTG AGGAAACTGA GGCTCACAGA GGTTTAATGA
 222551 CTTGCCAAC ACCACTCAAC CGGTGAGGAG GAGAGCTGCA ATAAAGACTG
 222601 ATTTGAAATG TTAATGTTG TCTTTGCTCT GTCTGCTCTG CCACATCTCT
 222651 TACATGTATA ATTTAAAAAA AAAACACACA CACATAGTGA TTATCATTCA
 222701 GCAACTGGGC AGATTGTGCC TGCACTCTCA CTTGTGTTCT GAAGGCAACT
 222751 TTCTGCACGT GTAGCTGACA TGTGCCCGTG TTGTTAGCCA CTCTTGACTC
 222801 GACAAAGAAA TTGTGATGGT TTTTGAAAAT CTTTGTCTTCT TTGTTGTTTT
 222851 TGTCTCTACT ATATGCCAC ACTGTCTATG TATATAATGA TTCTGTAAAT
 222901 TAAAAAAAGGA AGGAGGGCTT GCAGTGAGCA CCTGCGCAGT CTCTCCCTT
 222951 TTCAAAATTA GCAAAAGGC GGGGACTATG TATGGCTCAC CTCAGAGGAG
 223001 CCAGTGGACA GGGTGGGCTC AGGACCGAGC TGCTAACTAG ATTTGCTGCC
 223051 AGTGGACTCA GCCTCTGTGC AGCCCATGTT GGGTTCTAGG GGGACCAGGA
 223101 GCCTGTGGGG CAGCCCGAGA TGGCAGTCTT GGAAAAGGAA TTCAAGGGTGG
 223151 GTGTGATCAG GGATAGAGCT TCTCTAGTGT ACATCACACA GGAACCCATG
 223201 AGTGGTACCG GCATGTGCTC TAAACCTCAT CCTGCCGTGTT TGTTCACACT
 223251 CCTGAGGATA GTAAAAGTAGT GGTCCCTGTT TTCAACACTG CACCGATCAA
 223301 GTTTCATTCT TGTGTTTCAC GATTTCATAG AAAGATCTGT GATTCTTGCA
 223351 TCTGGGCCAT TCATACCTTG GCAGGATTCT GCAATTCCGC ATTTCATTGC
 223401 TTCAACAAAC AGTGTGAGT GCCTGCTGTG TACCAAGGCCT AGTCGAGGGC
 223451 CGGGTGGCGG GGGTCCAAGA GGAGTGAG GAGGGCCCTGC CCATGGGGAG
 223501 CTGAGAGGGG ACACACACCC CCTGCCTATT GTAAACCAGG GTGGGGAGCG
 223551 CGACAAACGGA GCACGTCCAG TCTGTTATGG AAGGAACAGG GAGGCCTCCA
 223601 AAAGGGGGTG CCATCTGGAC TGAGTACTAA ATGATGAGAA ATGGGTTAGA

FIGURE 3, page 71 of 188

223651 GAAAGAGGAG GGGAGTCTTC TAGGCCAAGG GTTAGGATAT GAAGCCAGCA
223701 TGGGGAGCCA CAAGCCAATT GGTGTTCTC CAAATATAGA GTTTAGGGCA
223751 GAGAGAAAGC AGCAAGGGCA AGCCTGGAAA GGAGCTTGG CCAAGCTGGG
223801 GCCAGACCTG GACCATCAGG TTAAGGACTG TGGACTTCT CCTGGATGCA
223851 AGGGAGGCA GCATTCTAGG GTTTAAACC TTAGGCCTGG TCITTCAGAAA
223901 GATCACTGT GTTGCCCTTG GGACAGAGTG ACCCTGGAGG CAGGGGCCA
223951 GCAGGAGGA TCGAGGACAT TCAACAAAGC CACACAGAAC CCTGAATCGG
224001 GGGATGGC AGACCGGAGA ATCACTTATT AAAAATACAG TCAGCAGGAC
224051 CAGGCACTGA TTGTAAAAAT TAACCACATCAC ACCTGCCAC CCCAGGATGG
224101 TTCTAACTGC CTTCCCTCAT CCTTAGGCCAG TCCTCGTCA AGCAGAAAGTA
224151 CAAGTCATCT CAGCGAGGCC TGAGTGAAT CCTTCAACTG ACAAGAGCCA
224201 AGTTTCCCATT TTGGGCTGGG CCCTGAACAG TCCTGGAAA GTGTCAGGCC
224251 TTGTCAGGG CGCACCCCTGT CACCACCCCG TCTGAAAGC GGGCACTGGA
224301 CTCAGAAAGG AAATGTGGCT TGAGTGCAGA AGTCAGAGTG TGATTCTCCT
224351 ACCCTGTGGC TCAGTCCCTG TCCTGGACTA TAGATGGATG GAGTGTGCA
224401 CTCTAGGGT ATTGCACCTT CCTTTCTGAG GTTGCACACT CCACCTCCAG
224451 TACCGAGGG TTCCGCAGGA GGGTGGGAA GCAGCTTGAT TCCAGAAGTC
224501 TTACCTCTC CTCATCCACC AGCCTCAGAG GTGCTTCTG CCAATCACAT
224551 TTTCAGGAGC AGTCTTCTTT TCTTCCAAAAA GCTTAATAAT TTAAACAATA
224601 TCCATTGAA ATTATATTAA AACACTTAAAC ATATGTAAGA TGCAAACCTTAA
224651 AGGGAGAAA GACCAAAAGGG GAAATTAGGT GTGGATTTTC TCAGAACAAA
224701 AGAACAGTCC ACAATTGGAG GGAGAGGAGT GGCAGAGCAC AGAGGCTGCT
224751 GATTAGATCC AAGTGTGCCT CCTTCTAAG GATACTTTG TCTGAGAAAT
224801 GCACGCCTCG ACCAGAACAGC TGCTGAGTTT AAAGACATGG GAATCTGGGT
224851 ATTAAATCAA CCGCCTTGGT GACTGGAGCA TGGGGAGGC TAGTTACTCC
224901 TGGAAATCGG TAATGAAGGC TGCGGCAGGA GACCGCCCTC TTAATAAGGC
224951 AGCAGCCAAT TAACAGAGCA AATGTTGAG GTGCCCCCGC CGAGTGTGATGG
225001 GATGTCITGT CTTCTCCCG GGCCCTGGGG CCTGTCAGTC AGACAGGCAG
225051 GTACATGACT TAAGTTAATT GGAGAAAAAC TCCCTCCAGG GAAGTGGCA
225101 CTGGTTTGTG ATTCAATGGG ATGGAGATCT GGTTTGACA AGTACCTTTG
225151 CCTGACCCAG GAAAGGACAC GTCCCTCAGA AAGGCTCTC TCTCCCCCGA
225201 CCCTAGCACC ACCACTGAGA CTCTCTGGTT GGGAGTTCT AGCCCCAGGA
225251 ATCTAAAGC CAAAGAGCAC AGCTGCGCAT CTGAGAACCA AGAGAATTTC
225301 GGCAGGAGAA GGCGAACCTC CTTCTGAGA GAGTGGCTCT CCCCCACCCCT
225351 TCAGATGGTA CCTGGGAAGC ACCTGCTGAG CCCACCAAGGG TCTGGCTCT
225401 GGAATGGCCA GGAGGAAGTG CAGGATGTGG GCCACAGGAA GAGCTGTGAC
225451 TGGGAGACAT TTGAAACTCA GGGTAGGACA AAATCAGGGT GGGCCGGCT
225501 TGGCCAGCTG GGGAGTAGCT GGTGATGCCA ATGGAGAGGT CATTTCAAAAA
225551 TGGGCAAGG AGTAACATGT CAGTAAAGTC CATGTGGCA CGCAGAGCCT
225601 GCTCCAGCCA CCTGAATATC CACCAGGCAG TTGACCGCTC TGTTCCTCC
225651 TCCCCCACCC CCCTCTCTC TCTCTCCCTG TCTCTCTCTG TGCCCTTTT
225701 CTTTCCCTGT ACTCCTCCCTC ATCTTCTCAC CTCCTATTTC ATTTCCCTT
225751 TCCGTGCCCT CCCTGTGAGG TCTGACTTGA GTGTGCCAAC ACATATCTAA
225801 AACAAAGTGA TGAAAATAATG TGTGTTCTCAG TTAACTGGGA GTATGTATTA
225851 CATGGTGCAA GCTACTAGTT CTATGTTGAG GGAATTAAGC AGTTTCCCTA
225901 GCAGAGITGA GACAGTCTGA AATAGATGAT CACCCATGCT CCCCCAGCATC
225951 AGGGGATGAA CCATGCCATC TGACCGTTCA TGGTCTCTGT AATGCTGTCA
226001 ACCCCACATG AGCCAGCAAG TTGTCCTTTT ATTGGAGAAA TCCCTCTCTC
226051 CAATTCTCCA AACAAATCACA GTCTGGATTAA TAAGTAAATG ACTAATTCAA
226101 CAAATGAGTT ATTGCTCAGT ATTCTTGTGAT CCAGTTTAA GTGAGGAGAG
226151 GAGGAGGAGG AGGGATGAT GAGAACTAAC AATCATCACA AGTAGGTTGAA
226201 ATTATTACCA CACGTAAAGA AATGGAGGTT TCAGAGGAGT GTTAGGTTAT
226251 GCCACAGTAA CAAACAACTG CAAAACCTCG GCACCCCAAGT AAAAGTTCT
226301 CACTCACGCA GTACATCCAG CATGGGTCGG CAGGGGCTCA GCTCACAGAC
226351 CCAGGCCAC ATGGCCTTCT GCAGTCAGTG ATGTAGGAA GGCCAGGCAT
226401 CTGAGAACCA GGAGGATTTT GGAGGAGGG TTTGGCAGGA GAGGTGAGC
226451 AAACCTCTC CGTGAGAGGG TGCTCTCCCG CACCTCTCA GGGGGTATCT
226501 GGGCAGACCC TGCTGAGCCC ACCATGGTCT CAGGGCTCA GCTCACAGAC
226551 GGAAGTGCAG GAGGGGAAAG GGGATGTGAA GAGGGAGTAA AACCCCAAGG
226601 TAGAGCCTGG AATTGACACA CATTCACTTA AACCCCCATT TCCTTGGAAA
226651 AGTAAGTCAC ACAGCCACAG CTAACCTGGC TAACCTTC CTTGGAGGAC
226701 AGAGGCCCTG CTTCCATCG TCCCTCCATCA GTCCACGGCA TCCCCGGCCAG
226751 CGTGTAAAC TAGAGTGAGG GCTGAGTGCT CATAGGAAACG CTTGAACACA

226801 CAACCCTGCA CATACTGTG TCCACGTGCA AGGCTGACCT ACTGGCATAT
226851 TCATAGAATT GGAAGGGAAA CCACTTGGTG AAAAGGAAAT GTTTTCTTC
226901 ATTTCTTATT ATGACGTATG GCATACAGAC AGTGGGATGA AAATGTGTAC
226951 ATGCAGTTGA AAGAATGATC GTGAAGACAA GAGCGTGTGTT TAGGAATTA
227001 GGCTGTGCTT TAGAAATGCT CCGCTCTCG TGCCCCCTCCC TACTCAACGT
227051 CCTCCTCCCT GCCTGGAGGT GACACTGTC CGTTCTGTGA TAATCATCTT
227101 CCAGCTTCT TTATAGTTAT CTAAATTAT ATTCTAAAT ATGTCTAAC
227151 ATGGTTACT TTCTCTTGTG TTTGAACCTC ATATAATGG AACCATGCTG
227201 CGGGTGTCT TTTAGATTT ATTCTTACA CTCAGTATCT GATTTGTAAG
227251 ACTAGTTCAT ATGGGGTATA GTCATACCTT GTTCTTTCA TTCCTGGATA
227301 TCCCCTGTG TAACTATGCC ACGATGTATC CATTCTGCTG TTGACAGCCA
227351 GCATTTGGGT TAATGCCAT TTGGAGATAT TCCAAGCTGT GCAAATGGAA
227401 TCATTCTTGG ATATGTCTC CTGTCACCT GTGAAAGTGT TCCCTAGCG
227451 TGTACTCTAG GCACTGTACT TCACTCTCT TTCTAGATAT CACCATACTC
227501 TTTCACAAAAA TTGTTGACCA GCTTCCCTG GAAACACAG TGTGTGAGTT
227551 CCCATAATTC ATATTCTTAC TAACACTTGT GACTATAAA CCCCTTTTTG
227601 ACAAAATGCT TTTCTGCAA CTACTGAGGG TTTGCCCTT TTCCCTATTG
227651 TTATTACGG TAATTGATT TCATATGTT AACCAATCTT ACATTCTGG
227701 GATAAATCCC ACTGGTAAT GATGTATAAT CCTTTTATA CCTGGATTT
227751 GATATTAGGT ATAATTATTT TTTATAAGTT ATATATATAT ATATGATATA
227801 TATTATATAT ATTGCTGGAT ATGGTTTGT AGTATTGT TGAGGATTTT
227851 TTATATCTA TAATCATAAC GGATATTGGT CAGTAGTTT CTTGTGTTGT
227901 CTTGCCCTGGT TTGATATAA GGTTGATATT GAAGTCACAG AATGTGTTGG
227951 AACATCTTCC CTTCTCTTT ATTTTGTGGA AGAGTTATG AAGAATTGTT
228001 ATTAATTCTT ATTAAATGT TTGATAGAT TTACCACTGA ATTAATTGTT
228051 TCCCTTGCTT TTCTTGTGT GAAATTTTA AATAACTAAA TCTCTTACT
228101 TATATAGTTT TCTTATTTCT TCTTGAGTTA CTTTCAATAG TCTGTGTCIT
228151 TCTACAAATT TGTCCTAAC ATCAAAGTGT TCTAATTAT TGGCATATAC
228201 TTGTTCATAC TCTCCCTTA TAATCCTTT TATTTGTAA AGTCAGTAGT
228251 AATATCATCC TCCTTACTAT TTTAGTAAT TCGAGACTTC TAAAAAATTT
228301 TTTGTTAGT CTAGCTAAAG GTTTGTCAA TTTTGTGAT TTTTTTTTTT
228351 GAAAGAACCA ATTTTGGGT TTGTTGAGTT ACTCTATTGC TTTTCTATT
228401 TCTTTTCATT AATTCCAGT TTAATCTTA CTACTGCTT GCCCTGCTT
228451 TTTGGGTTT AGTTGCTCT TCTTTTACT ATGTGTTATG GTGAAAGATT
228501 AGGTTATTGA TTGAAATTG GTTTTATTT ATTTTATTT TTTTTGAGA
228551 TAGAGTCTCA CTCTGTCACC AGGCTGGAGT GCAGTGGCTC ACTGCAACCT
228601 CTGTCCTCTCA GGTCACGCC ATTCTCTGC CTCAGCCTCC CGAGTAGCTG
228651 AGACTACAGG CGCAAGCCAC CACACCCAGC TAATTTTGT ATATTTAGTA
228701 GAGATGAGGT TTCAACATGT TGGCCAGGAT GGTCTCGATC TCTTGACCTT
228751 GTGATCGGCC TGCTCAGCC TCCCAAAATG CTGAGATTAC AGGCATGAGC
228801 CACTGTGCC TGCTGTTTC TTTTTTAATG TAAGCATTAA TAGCTACAAG
228851 TTCTCTCTA AGCACTCCTT TACTACATCT CATAAGTTT GTACGTTGT
228901 GTCTTATTT TCATTCATAT CAAAGTGTAT TTTCTCTGT AATTCTTAT
228951 TTGACCCATT GGTATGTAG GTGTTGTTG TTTAATTTC ACATATCTGT
229001 GAATTTCCA GATTCTATT GGATACTGGT TTTAATTCA GTCTTGTGGT
229051 AGATGACAT ATTGTGTTG ACTTCAGTTC TTTAAATTG ATGAACTTT
229101 CTATTCTGGT CTAGTATATG GTCTGCTCT GAAAATGTT TATGTACACT
229151 TGAGAAAAAT GTGCATTCTG CTTTTGTTAA ATAGGGTGT CCAGCGGGAT
229201 CTAGTAGGTT TAGTTGTATC ATAGTTTGT CAGTCTTTA TTTCTTGT
229251 GATCTCCTA GTGTTCTAT TCATTATTAA AAGTGAGATA TAAAGCCTC
229301 CATCTATTAT TGTCATCTAT TTCTTCTT AGTTCTGTG CTTTGCTTC
229351 GTGTATTTG GGGTTCTG TTAGATGTGT ATATGTCTAA AACTATTAAA
229401 TCTTCAAAT TGATTAGCC TTTTATTATT ATCTGTTAT ATAACACCTG
229451 GTTATCTCCA GTAGCATTGT TTTATATTAA AGTTAATTG GTCTGATATT
229501 AGTATAACTC TTTCAGCTT CTTATAGTT CTTTTCCAT GCTTTACTT
229551 GCAATCTATT TATATCTTA ATTCTAAAGT ATGTGTTCTA CAGCCAGCAT
229601 ATATTGAAAT ATTACTTTT TATCCAGTCT GAAAATCTCT GCCTTTGAT
229651 TGGATTGCTT AATTCAATTAG CATTAAATAT GTTATTGAT ATAGTTGGAT
229701 TTATATTGAA AATTCTACTT TGCTTCTTAT ATGTCTCATT TCATTTATTC
229751 CTCTGTTCT CCCTCAGTGC TTGTTTGT ATTAACTGAA CATTCTGT
229801 TGTAGCATTG TAAGTCATT AATGATACTT TTCCTACATT TTTGGAGGGT
229851 GTTTTAGTG ATTCTCTGG GGTTTACCAT ATACATCATA ACTTATCAGA
229901 ATTACTTCA AATTCAACT AAAACTTTA ATTCTGTGA GATATAGAAA

229951 TGTTATTCCCT ATATGTATTT TACACTTAC ATTTTCTGC TATTACTGTT
 230001 ACACAAAATA AAACTATATA TGTTACAAC CCAATAATAC ATGTTTTAAA
 230051 TTTACTGATT TAAATAATTT TGTCATTGA AGCTGAGGGA ATAAATGAGA
 230101 GCAAGTATAT AGTTATATAA TTTGTATGTT AACCTTCTTA TTTACCATTG
 230151 CTGGTTTCT TCAGTGTGTT TGTAGATTCA AGTTATCATT TGATATCATT
 230201 TCCTTACTCC AATACAGTT TGCAACCCACC TACATCCTT GTGCTATTAT
 230251 TTTCAGTAT GTTATATTTC TGTATGTTAGG CACACAATT GTACAGTTAT
 230301 AAACATATTA TTTTACCAA TTGCTTTAA AATCAGCTAA CAAGAAAGGA
 230351 GAATAAAATGT ATATTTATAC TGTCTGCTAT AATTACATAG TTATCTTGCG
 230401 CAGTGCTCTT TTTTTTTGGT GTAGATGTGA TTACCATCTG GGGTCACTTG
 230451 CTTTCAGCCT AAAAAGCTTC TTTCACCTT TGAGAGTGA GTATGTAGCA
 230501 ATGAATTATC TGTTTTGTT TATCTGAGAA TGTCCTTATT TTGCTTCTCGT
 230551 TTTTGAAAAG TGTTTTGTT GGATATACGA TTCTTGTGTT ACAGTTTTGT
 230601 TTTTTAGCAC ATTGAATATG TCATTCCACT GTCTGCTGGC TTCTTAGCT
 230651 TCTGACAAAAA AGTCAGCTGT TAATCATATT GAAGTCCCTT TGACACCGAG
 230701 TAAAAAAAAT AATTGTTGCT GCTTTCAAAT TTTTCTCTT GTCTTGTGTT
 230751 TCTATATTTC TAGTAGAGTG CACCTGGATC TCTGTGTATA TCTTCCTTGA
 230801 AGATTGTTGA ATTCTTGGG TGACTGTGTT AATTTTTAA TCAAATTAG
 230851 GAAGTTTTA GGCATTAATC CTTCAAATAA TTTTCTGTT CTTCTCTT
 230901 TCTTTTCTG GTGCTTCTAC TGACATATG GTGGTGTGCT TAATGGTGTG
 230951 ACACATTCTC CTGAGGCTTT GTTCATTTT TTTTTTGTT TCATTTCTT
 231001 CCCTAGAAA CTAGCTGTCC TACAGTCTAG CTTGTTGCTC TCATGGAGCT
 231051 ACCAGCCTCC TCTTAATTAC TTACCAACAA AATGTTCAATT GTTTAAGAG
 231101 TACTTTAGG CTCAAACTTC CTCATACTCT GTTCAAATT CCTCTCAGTC
 231151 AGAGCTCTCC ATTTTAATGG CCTGTCCTGC CCCATGGCCA AAATCTCAA
 231201 GCCACTGCTC CAGAGTTGG TGTTGGCATA ATGGCCCAGT TCTCTTAGAA
 231251 TGACAACCTT AGTTGTAATT CTAGCCTGGT TGTCATGGTA GACTCTGGC
 231301 TCTCAGTTCA CTTCTCCAG CATGAAACTCT CTGCTCTATG AGTAAACTGG
 231351 GGTGAGGGAA CTTCGGGTCC CAGTGTACT GCCCTGTCAC ACCAGCAGTA
 231401 GAGTCTCCAT CTTATGAGTC AGAGCTGAGT GGAAGATGAG AGCCCCAGAC
 231451 TGCTCAGTTG CATTGCCCTG GAATTAGTC TCCACAGCCT GGAGCTGGCA
 231501 GGGATTGCGTT GTGCTGGCAT CCTGACCTCC CAGGGAAATA TTATATAACT
 231551 TGAATGGAAG CTGGGGAAAGA GGGAACCTG TCTCCTGGC ACTTCCATCC
 231601 AGAATGAAGC TTCCTTCACA TTTAGCTGGC AAAGAGAGAG GGAGCAAGCA
 231651 GATCATGGCT CAAGTAAGAC TCTTGCTGTT TTTACTGAAT TTAGTAGATT
 231701 TTCTTTTTT TTTTTTTGAGACAGACTCT TGCTCTGTCT CTCAGGCTGG
 231751 AGTGCAATGG CACAATCTCG GCTCACTGCA ACCTCCGCCT CCTAGTTCA
 231801 AGCTATTCTC ATGTCTCAGC CTCCCAAGTA GCTGGGATTA TAGGTGCCCA
 231851 CCACCACACC TGGCTAATTG TTGTATTTT AGTAGAGACG GAGTTTCACC
 231901 ATGTTGGTCA GGTGGTCTC AAACCTCTGA CCTCAGGTGA TCCACCCACC
 231951 TTGGCCTCCC AAAAGTAGAT TTTCTGAAAT AAATGTTCT TCATGTGCTA
 232001 TAGGTACTTA GGAAAATTTC CAGATACTTT AACCGGTTGG GTTGGAGGTG
 232051 TGTGTGTTTT TTTTTAAATC AAAATCATCA TTTCACCAT TATATTATT
 232101 TCTCTGAAAGA GCATGTCTAC AGAGTTCGTT ATGCCATAAT TCTAAAAGCG
 232151 GGACCCAATG TTTTTTTTT TAGTCTACCT GGATTAAATG TGGTGTGAAT
 232201 GGTATAATGC AAAGGCCTAG TTTTATTATT TTTCACATGA ATTCCAATT
 232251 CAATTGCCCC TAACTCCATT TATTGAAAAG TCTATCTGTT CCCCCAGAGA
 232301 TCTACAAATAC TGCCCTGTC TTGTAGCAA TGTCTGTTTC TGAGGAGCA
 232351 TATTGAGAG TTCTTCTTC TGTCAGTGTG ATCTATTCT GCACCAATAC
 232401 CACAATGTCT TAATTATAAA AGCTTTATAT AGTAAGTTCT GATATCTCAT
 232451 AGGACAAGCC CTTGTCCTTC TTCTTGAGA GCACTGAAGC TGTCTTCAGG
 232501 ACTTTGTATA TGTTTATAAA TTGTAGATTC AGCTTGTCAA GTGCACACGT
 232551 GTGTATACAC ACAACCTGTT GGAAATTGAGA TTGTATCGC ATTGAGTCTA
 232601 TGGGTAAATT CAGGAAGAAT CAACATCTT ACAAGACTGT GGCTTCCAT
 232651 CCGTAAACAT AGTATATCTC TCCATTACTT AAGTATAAT ATCAACTGAT
 232701 GCAAGCAGTA TGTGTGCTCT CTAAGGCCAT GGATCTTCCA GAAACTTGT
 232751 ATATTTCTA CTCTCTCCAC TCATCTCACA AGGGTCATA TCACTTTAAA
 232801 TCATGTCAAT GTGGGAAGAA CAAATTAAC TTAGAGGCTA TTACTGATCC
 232851 CAATGTGACA GAAAGCCAGA TTCTAGACA AGTAGATATT TTGGTAGTT
 232901 GCCTCTAAATG GATCAACTAT ACCCAACGGG AGTGAGAGTA GAATAAGGTA
 232951 CATTTTATC ACAAAAGTAGC ACCTACTTAA AGCTCCTCC ACTGTTTTT
 233001 ACTAACCACTG TTATTCCTT TCATGCTTTC ACCAACACTC CAGCTGTTT
 233051 CTGACAATGG GGAACCTAGCA TGAGGCTTGG CTATTCAAT CAAGGCAGGA

233101 AAATATTGAT TAGGGTCTT TAAAAGTAAC TGCTGGTGCT TTCCCTTTAT
 233151 TGTTGTTTT CTGATTACAA AGGTATTATG TATTATTCC AGAGAATTAA
 233201 GGACATACAG AAAAGCACAA AAGAGAAAAA TAAAAGTGTAT ACCACATCAG
 233251 AGAGAACCAAG GGATAATATT TTGGTATGTA ACTTTAGAGT CTTTTATATA
 233301 TATATATATA TATATGCCAT GCACACCCTA TGTTTGGGT TTTTTTCAA
 233351 AATAGCTCTT TATAAATGGA TCTCTTATA CAACAGTAAG TCAAACCATT
 233401 GTTTTCTTG GAAAACAGCA GGTAAATGGGT GCTCAAGAGT GCTGCAGGGA
 233451 AAAGTCAGA GAATCCCTTC AGGAGAGACA GAGGGTGTAA AGTTGAGACT
 233501 GCCAACCAAGG TTATGCACCA GCTCACTCCT CGAATACCAC CTACTGATTT
 233551 CTAGATGGCT GACGTGAATT TGATTGCCCTC TCAAGGTTCC ATCCAACCT
 233601 AAAGTTTGG GACTCCAAGA TTTCTGTCTG ATCTGTGGTC CCATGTCACC
 233651 TAACACTGTC ATAGGCCTGA GTTGTGAAA TGAGGGGTGC TTAGTCAGTC
 233701 TGTTGCTATA ACGGATTATC ATAGTCTAAG TGGCTAAAG AAATTATTT
 233751 CTCACAGTTC TGGGGGCTGG GAAGTCCAAG ATCAAGGTGG TAGCAGAACT
 233801 GTGTCTGGT AGGGTCTCT TCCTGGTTG CAGATGACCA TCTTCTTGCT
 233851 GTGACCTCAC ATGGTAGAGA GAGAGAGAGA GAGATCATCT CTCCTGTCT
 233901 TTTTTTAAAGGGTATAA TCCCATTCTAT GAGGACTCCA TCCTTGTGAA
 233951 CTAATTACCT AACAGACACC TCACCTCCAA GTATCATCAC ATTGGAGATT
 234001 TATGCTTCAG CATATGAATT TGGGGAGACA CAAACATTCA GTGGATAGTT
 234051 AGGGGTTTT GTTTGCTTG TTTAACTGCC CCACCAAGAA TATGATTGGA
 234101 AAGTTCATAT TTAACCAAGA TGTTAGTACT GTCACAATTTC TTCTCTAGAA
 234151 GAGATAATAT TAAAAGACCA TTTCATCTGC ACAGCTCAAT TCCACAGAGA
 234201 AGAGATGGTG AACTCAGGCT TGTCTCTGGT AAAATCACTG TGTGCCCTGG
 234251 GCCCAGAACCC CCTGTGTGGA CCCCTTCTC CCCTTCAGCT CCACCAAGTAC
 234301 AATGGACCCCT TGTCCAGAAA GGGACTTCTC GTGAATAAAT TTGCCTCCAT
 234351 AATGACCGAA TAGGAGAAAG TTGCACATCT AACCACCTGT AATTATCAA
 234401 TAAAATCCTT TGTGCCAGG TCAGTAAGTC TGAGTGTGGG CAGTTGGAGG
 234451 AGGATAGGGGA AGCCAGGGGA GGGGGCAGGA GGACCTTCCC AGATCCTGTG
 234501 AAATCACCCCT TCTAAGTTAC CACTCAGGAC ATGGCTAGCT AGATTAATGT
 234551 GGGGCTCAGG GTTCCCTGC CCAAGGGACT TCATTTCAGG TCAGGCAGAG
 234601 GCAAGCAGCT TAGCCCTCAC ATCTGTGCTG CTGAGTGTGG TTACTGCAGG
 234651 AGAGAGCTGG AGCTAAGGG AAGAACTTC CCATGCTTCC TGAGGGGTGG
 234701 GGATAACTCT GAAGCTCTGT GACCAGTTCT ATTTAAGCCA ACATAGAGAA
 234751 GGGCATCATG CTGCTGAAGG TAGAGGCAAG TGATGCTTCA TCCTGAGATT
 234801 TTGGGGACCA TTGCTGCTCA GTGCTGTG CTGTTCACCC ATCTTAGTGC
 234851 CCCACCCAGG GAGATGGAGG GTGCACTGTG GCCCCAACCC AGTCTACATG
 234901 GACTAGGTTA TGATCAAGGC TTCCCAAGAA GGGAGGGTAG GTTTGGTGGG
 234951 GTCTGCCCA AACAGTTGTT CAGTGTGGG CCAGCATCCC ACACACCCAA
 235001 CCTGGTGTAA AGTTATGGAT CAGCTTGGCC ATGAAGCAGT ATATTCCAGC
 235051 TCACTCATTT TCACATTGGT GCTGCCGCT GTTCACACTG GTTCCTTCTT
 235101 GTATGTGCAT CCAGTGGATC TCTGCTTCTA CATATAGCTC ATGTGCAAC
 235151 CCTCCCACAT GGTGGTGTAA CTCATGGATT TCACATTCTT ACTCTCAGGA
 235201 TGTGTTCAA GGAAGTTACC CTGGAAAAAA ACTCTTCCAA TCCCTATAAT
 235251 TCCCACAGTC CAAGATTCAA GGTGCTGACC GCCCCACTAC CTGCATCACC
 235301 CCAAAAGGC GTGGGCTGGT GGTGTCTGT CAGCTCTTGT TGGCTGCAGA
 235351 GCCCTGGGG CTCTTCGTA TAGCCCGAGG CCTTCCCTGGC AGGGATTAGA
 235401 ATAGTCATT TGGGCTCTT TAACAGAAATA GCACCAAATA GGTGATTAG
 235451 ACAACTATGA AAATTCTT CCACCTTTT GGGGTGGCTT CTTAGCCACC
 235501 TTTTGTGTC ATGCTCACAT GGCAGAGAGA GATCCTCTCT CATGTCTCTT
 235551 CTGAGAAAGG CACTAATCCC ATTCAATGAGG CTCCCCCCAC CTCCCTAATAC
 235601 CTTCACGGTG GGGATTTAGG CTTTAATGTA TGAATTCTGG GGAGACACAT
 235651 TCGGTCCATA GCAGCCAGCC ATGATGTTCT CACAGGTGGG AGCTGCTGAG
 235701 AAAGCAGCTG TGACAAAGAA CATGAAGAAG CCTGTTACAA GGAGTCACCC
 235751 TCCCTCTGGG CACAATTAAA GCAGAGTGCCT CGGCCTGTAT ATGCCAGAAA
 235801 TTTCAGTTCC TCCCCGCTGG AGGCTCAGTT CGCACCAATA ATGCCACAT
 235851 TTGATATGCA GATTCCCTGA ACTCTCCAGA GAGGAGCTGG CTACCCAAGG
 235901 GGAAACAAAG GCTGTTCAGA ATGTGTCTGG ATCCATTCCC CCATACTGA
 235951 TGTTAACACT AAAACACAAAC AGCTCTCTT CATCGGGCTG GTTTATGCC
 236001 TCCCACCTCA AGTGTGCTT GGAATTGTGG TTGTCTCAT TGCTTCTTAA
 236051 CTACCTTAA AAGTTCTTT GCAGAAGCCT GTGGCTGGC TTCTGCTGAA
 236101 CTCCAGGGCT TGTTGTGGAA AGGCCTGGAA GGTTGGCGAC TAGGAGCCTT
 236151 GGGCCATGAC CCAGTCCTAA TACCAAGGTA AACACTGAGC TCAGTTATGT
 236201 GTTCTCTCCT TGGTGTCACT TGCTTAGGGG GATTCTGACA CACAGGTGAC

9
8
7
6
5
4
3
2
1

236251 CTCCAGGGGG CAAAGACTAG GATCACACAC AGTCTAAAAA CTTTATTCCA
236301 CAGGACAATA AATTTTAAAAA AATAGATAGA TAGATAGATA GATAGATACA
236351 TACATACATA CATACATAGA TACATAGATA CATAGATACA TAGATAGATA
236401 ATTCCTCTGC CAGTCCTCAA ATCTCAGCAT GAAGCATTAT CTCCCTGGCG
236451 GGAGAAACAT GAAAACGTG TCCAAAGCTG ATGGCCCTT ACCTGGAAGT
236501 TTGATGAGGT GTGTTGGCA GCCCAGCAG GCAGATGTT GCCTGTGGG
236551 TGGGTGACAG GGAGGCCAT TTCAATGCC CTGCTGTCA GTGTCATGGA
236601 TTTCAATTCC TCTCTCTGG AAGCAGTTTC CACCATAAAA TGTTGAGCCT
236651 TCCAACAGCT GGGCTGCCT TTGCAATGGG CCTCCGGTG ATGAAGTGGG
236701 CTTCCCGTCC CTGGGAGTGG ACAAGCAGCA GCCGAGGCTG TTGGGAAAGA
236751 GGCAGGAGAA TTCTGCCCG GGGAGCAGC TCTGACGATG AGGAGTCCTT
236801 CCAGCTCTAA CAGACAGTGT TCATACCTCA GTGTTTTCA AGCCCCAAAT
236851 CAGTTCTTT AATGATGCTC CTGTAACAAA CAATGCCAG TGATCGCTGA
236901 AACCATCTTT TTTCACACTT CAAAAGAAC TGAGAACAAA GGTGAAAATG
236951 ACATTTCTTT GTCTGCCAAC TGATATTAC GCACATGAAT CATCTGACAC
237001 ATTCCCGATT ACTTTACAGG CACTTCAAAT GGAGGCTTT CCCCTGGGAG
237051 CTCTTGTT GTGCCAGACA AGTGGAGGCC CTGTTAGGGAC ACTCAGCGGC
237101 TCTCACACCC TAGACAGGTC CGTCCTGCCA CCAGGAGTCA GCCCCAACACT
237151 TTCCGTAGAC CCTCTTCCCT CATGCTTGCCT TTTTCCATC CTGGGAGTTT
237201 TAGGGACACT AGCCATGATT TAAATTTCA CGAGACCTAC ATGGGATAAA
237251 CCCTCAAGAG TAGATATGTT AAATGTCAGG AATGCCCTT GCGGTGAGGG
237301 CCTTGGGAAA GCAGTGCCTGG CTTCTGGCA GCCCCAAAC ATGGGCAGAG
237351 CTTACGTGGT CAGAGTCTCG GAGTGGACAC CTTTGTAGG TTGTGTGGCT
237401 CATTCCATTAA AGTCCCAGAG CTGGCCGGTC TTGATGGCCT GGGGTTGGTG
237451 ACCCTCTGAG TCCTCGGGAC CGTTGGCCCT CTGTGCCGTG TCCCTCCATG
237501 CCCCATCCCT GCATGGGCC TGCTTGCCAG CATTGCCAG AACTACCCAG
237551 GCATTCAAGAG AACCAAGGCTG GTACTGGCCA GGGAGGCAGC CAGGGCCTCT
237601 GTCATCACAG GCCTGATGTC CAAGCTCACG TCTGTGCTGG GAACCCAGTT
237651 TGCAGCCAGT CATGGCAGGG GAGAGCCATC TCTTACCCCTG GGTGACTCA
237701 GCACCCCCAGC ACCCACTCGA TGACCCCCAAC CTGCCCTTCC CTGTTGCTCC
237751 ATGGGGCCAG TTGCCCTAGA CCCTAATGGG TCTTGAAC TCTGTTCTTCT
237801 TTCCCTCTTC TCATTCCTGA AACCACCCCC TCTGCTCTGA GGGCGAGGCT
237851 GCCTGAGCCT CTGACTCACT GCTGCCCTAC ACCTGCCCTAC CCCTCTCCC
237901 CACTTCCCAC AGCACCGCCT CATCCCTCAT TCCTTCTCTC CAGCTGGCGG
237951 GACAGGAGTC CAAACCCCCAA GACTGCCCAA AGACCATGCT TCAGGACCCA
238001 TGCTGCCCTT CCCCAGCCT GTCCTCACAC AACTCTGCC AGGAAGCCAG
238051 ACCACACAGG ACCCTGAGCA CGCTGGCTTG CCTGGGAGAA CTACTGTCT
238101 GTTTCCCTTC AGGCCTGGGA CCCCTGTCTT ACTTTGGTA TCCTCCAGCA
238151 GGCTTCCCTGC CCAGCCATGG CTAATGTTA AAAAAAAAT TAGGACTCTC
238201 CCACAGGGAG AGGCTCTTA AATAGGATCC AGATGTTCA CTTTAGAGA
238251 GGCTGCCCTG CAGGCAGATA CCAAGTGGG GGCCATCTCA GTCTCAGGCC
238301 GTCTCCCTGC CCACAGCCCA GCCTGCCAAC CACAGCTGCC ATATTCCAAG
238351 CGACCTTGTC ATTCCCTCG CGACAAGCAG AGAACTCTGG GCAGAAATCA
238401 TGTTCCCTT CTGCCCTGGA GAACTCTGG TCTCATCAGG GCAGACAGAA
238451 AATATTAGGG CATGATTGAA GATGAAGGGT GTGGGGCTAT GACCACATGC
238501 ACGGTGACAG TTCAAAAGGAG CTAGAACAGT AAGAGCTGGG TGGCCAGGAA
238551 GCTTCCTGGA GGAGGGGGAT TGAATCCAG TAGGATGCTC TTGGCTTGGG
238601 TGGGTGGAGG GCAGCCCTGC TAGATAGGAC CAACCCAAAC AAAGGGATCA
238651 AATCAGCAGC GCCTCACTGG CACCTGGGA GGGAGGGAGG GAGGTGCTCT
238701 TCTACCTGTG TCATAGCTAG CTGCCCTGTG TCCTCTGCCA CCAGGGATTC
238751 CTCAGCTCTG AGACTATCTG GAGTGGGGTG CCTAATGGGT TAACTAAGCC
238801 CTGCTGATGC CAGGTGACAG AACCCACCA GTAAATCAAA TGGCACAAGT
238851 GTGTTGCCCT TAATGGTGTG GTTGTAGGCC AAATGAGCCT GCTAGAGTCT
238901 CTAAAATCAC ACTGTGTAGG AGGCGCCAC CTGTCAGAAT GGGGCCCACC
238951 TAAGCTGAGC ATTTGTGGA GAATAAGAAA GTAGGTGCCT GGGCAGTGGG
239001 AGGGGCTGTG TCAGGCTGGG TGCCAGGACT TGGTGTCTA ACCTCACCAG
239051 GTTGTGACGG AACAAAGCCTG GTCCCTCCAC CCAACCCCT GCCAGGTGGC
239101 TTCAGTTCTC CCCTCTGTGC AATAGAGGGG ATTGGCCTTA CTGTTTCTC
239151 AGTCCCCCTTC TCATCATGAT ATTCTGAGAC TCTGCTGTGA GTGGCATGAG
239201 ATGTCTCGGT GTGGCTCTCC ACCCAGGTCC TGCTGAGGAG ACACAGGAGC
239251 AATGAGCCCA GGGAGGGGAT TAACAGAGGG ACCGCCATG CTGCAAATTA
239301 GCAAGATACC AGCTGCCAA TGTAACAAC TGTTAATTG GCTTTTGTGTT
239351 TTATTAAGAG GCATGATTCT CTTTAGCCAA GCCTCAAATG CCAGATGGGC

239401 ATTAAACTT GGAAGATACA GAGATTAACA TTAACAAGAA AAGGACAGAC
 239451 TTGGGTAGCT TTGGAGGCTG GTGGTATTCA GCAGGCCATG TGTGGGTGTG
 239501 CCTGCCAGAA CCCTGCATGG AGACCAAGCC AGCCTGGAA GTCCGTCCT
 239551 GAGGCTCTT CGTCTATTGG GATGGGTACC TACATTGGC TCAAGACTGA
 239601 CTTTCCCAG CATAAGACAA ACTGAATCCC TGAAGCACCG TCTGCTGGAA
 239651 AATCCCCTT ATGCAGAAAA AGCCAGTTGG CACTAGGAAA AGTCCTGGCC
 239701 TGCCAGCTGA TCTTATTCA GTGAAATAGA ATTATTAGAA TGGGCTAGAT
 239751 GACAAACCAA CATGTCCACA GTTGGGGAC AAAGAGGGGA CCAAGTAGAC
 239801 TTTGGCTTGG AGGGTCCAAG TACATCTGAC AGCAAGGCCA AGGGCACAGC
 239851 TGCCCATGGG GCTAGACTAC AGGAATGACT ACCCACCGGT TCTGTTCTGG
 239901 TGCACGTTG TTTCTGGCT CAGGAATCTG TGTGTATGC ACCTCCCGTG
 239951 CTAGGAACT CAACTGGCA TCAAGAGACC TGAGTTCTCC CAGGCTCTC
 240001 CTGTTGCTCT TTGACCTTA GTTTCTACAG AGGTTGGCAG TCCCCTAAGG
 240051 TACCCCTACT TCTGACATCA GCTGCTCAAT AATTACACAA AAGGATTAC
 240101 AGAGCTCACA AAAACCTTTA TGCTCATGGT TATGGTTAT TACAGCACAA
 240151 GGAGACATTA AGATCAACAG AGGGAAAGAGG GGCATGGGGC CCAGAACAGT
 240201 TCCAAGCACA TAACTCCCCA GTGTCCTCTC CCAGTGGAGT TGTGCAGACA
 240251 GCACTGGTGT GTGACAATAC ACTCAGAGCA CTGCCAACCA GGGAAAGCTTG
 240301 CCTGAGCCTT GGCACTCCAAG GATGTTACTG GGACTCAGTC ACATGGATAT
 240351 GGCTGGCTGG CTGGCTGCAT GGCTGACCGT AGTGTCTGGC CTTCCAGAGG
 240401 TTGAGCTGAC ACCACATGGT CCCTGGCTC CCACCATAAA TCACATTGTT
 240451 AGCATAGACT GTGTCACTGGC CAAAGCCCC CAGCTAAACA AAGATGCTCT
 240501 TATCAGGCAG CACAGTCCAA GGGCTTAGCA ATCCCCCTCCC AGGGGCAGGG
 240551 GGCAAGGCC AGAACTCCCC TTGGACAAGG GTATCTTCT TATGCAGAGG
 240601 CTAGATGAGA TGGTCTCCTG GTTCCACCAA AGTCTTAGAC TCTGGGATCT
 240651 TGATCCTGCC TGTGAGATCT GGGTTTATTC ACAGCAGAAC ATGGAGAACAA
 240701 AAGTTCCAGC CAAATGAAAT GTGAAACTGT GTTAGGTTTC TATTCAAGGTA
 240751 CATCCTGTGT CACCTGTGGA ACTGTGTTG ATTTGTTCTC TCCCAAGGGAT
 240801 CATAGCTGGC AGGCTTTTA AAACCATTAG CTTACATTTC CTTTCTACT
 240851 CTCCTGATCT TTGTTCCAA CTCTGATGT GGCTACTGC AGAAACCCCCA
 240901 CAGTAGCAGG GAAACCCGCT TCCTTGCACT TCTAACATC TTTCATCCTT
 240951 GAGGTGCGGG AGAGCCAAGG AGAGAGAGCG TGGCCAAGCT GCAGCTGTT
 241001 AAATGGTTCT GCCTGCTGCC GACCAAGATC TGGAGCGAAA GCAGAAATTT
 241051 GTCACATGTT GTGGCAGTGA AGCCTCCCCA TGTTGCTGTC CTAAAATCCC
 241101 AGGGTCTAAT TGGAAAGGAA TAAAAAACGC AGGCCTTCTC GGGATGCTTT
 241151 GGTTGGATTC CTAGAAAATCTTGAGAATA AAGCATTGCC ATATGGCTGT
 241201 TTTCTTGTGTT ACCTTGGGGC TAAAGAGAGA CATTCTGGAC TGAATCTTC
 241251 CACATTGTTT CAGAGACAAC ACATCCAACC TCACACATTT TTGTGGTGCT
 241301 AAAAACAGT CTTGTTCCAC TTTGTGGGA TATAGACATG AATCTCAGGC
 241351 CTTTGAAACA GGGATTACTG GCTGACTTGA GTCTTATTC CCTGTAGGGC
 241401 CTATGGACAT CTTGGTGTCC ATTCTTCTCA TTGCTGCCTA AGCAGATCAG
 241451 TTGGCTCTGT CTCATCCTT CCTAGTCCCC AGCTGAGCTC TTCCAGGAAA
 241501 GAAGAACAGC TGTCTCCAC CAAAGTCTGC CCCCAAGCAG CTAACAGAGT
 241551 CACTATTCA GGAGAGACCT TCAAGGGGAG GACCTGAAT GGCTGGGGAT
 241601 GCCTCTCAT CCTGCTGTTG TTGGCTCAA CATTCAATA CATTAAATA
 241651 TTCATTAAA ATACTCAAC ATTTAAATAT ATCATTAAC AGCATTAGAA
 241701 TGCTCTGCAC CAAAAAATTA AGCAAAGGGGA ATTGTAGGAA TTTTTTGGC
 241751 CTTTCAAGC TATTAGTATT TTAAGTAGAC CTCAGTTCAA AACTGGAGTC
 241801 TTGAAAATGG TCCCATTACT ATAAATTAGG ATGCCCTT GTGCTTGTGT
 241851 GAGACGCTTC CATCTGGAT TGGTCCGTG ATGTTCTTG GACTGAAGAG
 241901 CTGCAGTGAG TTCAGATTCT GAGTGCTGGG TTTCACCTGA CTCTTGAGT
 241951 CACCAGAGGG TGTGCTTGAG TCACCAAGAGG GTTTCTCCA AGAAGAAAGT
 242001 GAGGAAAGGG ACATGGGGAA GCAGGCAGAA GAAAGTTTC AGTGACCAGA
 242051 GAGGAGTCAG AGTACGGAT TTTTAAAAAA ATAAATTGCA TGTCACTGTC
 242101 ACTCTGTCAG TAAACATGGA TTGAGGACCT GTTGTGGACT TGTGCTGTGT
 242151 CAAGCACCGG CGATACAACA GTGACCATGT CAGACGGTAT CCTGCCCTC
 242201 AAGCTGCTCA CATTGAATA GAGACAGAGA ATAAACACAT GAACAGACAA
 242251 GGATGACAGG TGGTAAAGAC CATAAAAGAAA AGCATTGAGG GAGATGTTTC
 242301 AATGCGGAGT TTCAATGGCT GGGGTATCCT CGGAAGGCCT CTGTGCAATG
 242351 ACATTTGAGA TGAGAGCTGC ATTTTGAGAT GGAGTCAGCC ATCCAAAAAT
 242401 CAGGGAAAG AGAGACCCAC ACCAAGGCTC AGCAAGTGCA AAGGCCCTGA
 242451 ACCTGAAAGG AGCTTGACAC GTTCAAGGTG GCACACAAAG GCCACTGTGG
 242501 TTGCAGCATC AAAAGTGAGA GGGTGGTAGG AGATGATGTT GGAGAAGGAT

242551 CCAGAAGCCC AGGCAGGTGG GGCCTTGTGG ATGACAAGAG TCTGGGTTGC
 242601 CCATTAGAGG AGGTAATAC TGGGAGAAC AGTCCTGTC TGCAAGGGT
 242651 GGAAGAAGGG CTGAGGGCTA GCCCTCATCC CTTTGTGCGG TACCACCAGC
 242701 CCCTGCCAGT CGTAGGGCTT GCAGGCTGCA GGAGGCTGAC GCAGATGGTG
 242751 AATGTTAATA CCCGTGGCCC TGGTCCGACC TTTTCAGCAT TCGGTGTTCT
 242801 GATTAACCTGG CCATTCTCCC TCTTCAGCAC ATGTTGAAGA TACTTTGTT
 242851 AGGAGGAAGT TGAAATGCC AGCCCCATCTA ATAACAGAAAT ATTGAAAAGG
 242901 TCACAGCAGT ACGGCTGAGT TCTCCAACCT ACAAAATCACA GGGAGCGTCA
 242951 GCTCGGATAA CTCATTCTCC TGACAAATCA AGGAGCAAGG ACTGAAGACT
 243001 GCACCGCTGA TTAGGCTCAT GGGAAACCAG AGGGCCAGGG AGAAATCGAT
 243051 AGAACATCCT GCCTCGTGA GGGGTTCAAG GCAGCAGGGG TGCTGATTAG
 243101 CAAATCAGCA GGTGGGGGCA TGCTGTCCCC TGGTGGCCGC TCAAATGACA
 243151 GCCGCATTTG AAAGACCCCA GAGGGGAGGT CCCATCTGGA CCTGCCTGGG
 243201 TGGTCCCCCT GGCTCAGCAA CTTGGCTGGA GATTGTTACC ATTTTACCAAG
 243251 AAAACTATTA AAAAGCAGCT TTCCCCAAAT AAAACATTG CCATTAAAAT
 243301 CCCTAAAGT TGATCTCTT CAGGATATCT TGTGTTCTTT TTCCATTAAG
 243351 GTTTATTATT ATTATTATTAA TTATTATTTT AGAAATTAAC TTTGCCATG
 243401 ACCAGCCTT TTGAGTTTG ACTGCAAGCA ACAACAGTCA AAACCTCAAAC
 243451 TCCCTGTTAA AGGAGGACAG GTTTATGGCT TAATTACTA CAGAGTTCCA
 243501 CAAACAAACAT TAAAGAAAAA TGACTGATT AATTAAAAAC TGGGCAATTA
 243551 ACCTTCTGTG CGCTAAAATA GAGGGCTTTC TGAGGGCTTT CCACAGAAGC
 243601 GTGTCITCAT CTGTGAGGCA GCGGCCTCAG AGAATCTAA TAGATCAGTG
 243651 AAGCTGGATT GAAGTGGAAA GCTCACCTA AAAAGAAATC TAAGGAGATT
 243701 AAGAGGGGGA TGAACATCAA AAATGACTCT GATTAAGCCA AGATAAAAGAA
 243751 TGCTAGAATC TGAAAGGGAG AAACAGCATA CACAGAATAT ATTTTAAAAA
 243801 CCACGGGCAC AAAGATTTCG GTGGGCTTTG GAGATAAGGG GGACTGACAT
 243851 TTTGAGAACG GTTGATAAAA AGCTTTTCAG CACAAATGTT CATTTCACT
 243901 GGGGGCTGAG CACAAAAATC CATGGACAAA ATTGAAATT TACATGCTAA
 243951 GAGAAGACTA AAAGATTTAC TGGCACAGAT TCAATTAAAGT GGCTAAAAAA
 244001 ATGTACCATC TCCTTCAGGA TTCATTTAGG TGCCTGCCTC ATAACGCAC
 244051 AATTTCACCA ACGTTGCTTG CTAATGTGTC AGGAGGGATG ATTCCTGCAG
 244101 GAGGAGCAGG GAGTCTTCAT CATAGGACCT TGAATCAGGG CTCAGCAGGT
 244151 GTAAGAGGCC CCTGGCATGG GGCAGCCCT GCCAATTCCCT CCTTTGCGG
 244201 GGGCCTGCTG CCACCTCGAT CAGGAGGTTA GGTGCCCACT GGGAGTACAC
 244251 TCAGAGTCCC CTCTGAAGTT TCAGGCCTTG AGACAGCAGG CTTTACTTGT
 244301 GACCACCA ACCCACCCCC ACACCCCCA CAGAACCGGG CTTTAGTTGT
 244351 TACAAGCAAG TCTGGAGACC TGGACTTCA GAAACAGAGC CTAGCTCAAG
 244401 ATGCACCTTG AACATGTCCC TTGCTGAGCA GTGTTGGAAA CTGTTGACCC
 244451 CATGGCACT CTTGGTTCCA TATTTCTGAG TTGTCAATCG CCTGCTGATG
 244501 CTGGAATGTC AGGCGTGTCC TGCCTTAGCC AGGCTGCCCT GTTCAGTGAG
 244551 AAGGGAAATTA TTAAAGATC TGTCCCCAGC AGCACATTCA GGGCCCAGAG
 244601 GTGGGCTAAA GCATCTACGG GAAGGCTGGT GAGTTATTGC AAAGTGGCAA
 244651 GTGTTAATTC AGTGCCTCT GAGCCGCGT CTATGAATTA ACCCAGCCAT
 244701 TAGAACACTA GAGTTAGCTC AGTGTGAGGC CAGCTCAGCG GTGAGAGGGC
 244751 CTGCACAAAG CTGTTAAGGC TGATGAAAG ACAGGGGTGG GCAGGGTGTG
 244801 GGCAGCCCTC ATTTTAGACA ACCCTTGGGA TGTGAAATTG CAGCTCGACC
 244851 AAGGTAGTAA GCAGGAGTTT GGTCCCTGTG GTCCACGGCC TGCCAGCTCT
 244901 GAGATGCCCT CAGCCCCAGGT TTICATCCTGG CTGTATTGCC AAGTACACTG
 244951 GCTGGAGGTT CAGGAGCAGC CTTGTTGGCC TCCCACGTGG ATGCTAAATG
 245001 TTATTTTAA GGCAAGAGCA AGGAAAGTGA AATGAAAAGG CACTTAATAT
 245051 AGTTAGACCT ACATTGCGGC TGGCCATTCA AATTCAAGGC TGGACGGAGT
 245101 ACTTCAGGCT GCGGTGGTCA GGGAAAGACTC TCCTGTTAGT GACCAAGCTT
 245151 GGGGGAAGGC GTGATTGTGA CAAGTAGAACAG AAGAAAAGTC ATTAAGGGTG
 245201 GGAATTCCA GAGTTGCTGG GGGAAAACAA GGATTGAGGG GGCTACCGTA
 245251 AATGACTCCC CCATAACCTG ATATCCCCCA AAGGAAAAGC AGTACTAGAG
 245301 CTGAGGGCCT CCTGGAACAC CCCCCACTCAT GGAAATGTGG GCAGCTCTG
 245351 TGGGCACTTG GTACCTGTGCG CTGCTGCCCT CCACCAACATG CTTAACCATG
 245401 AGGTAATTG TACACCTGGT TTTGTTGTG TGTTTTTTT CTCTGTGAAG
 245451 TATGCAGATT ATTCAAAAG AGAAAATAAA GAAGGGTAAT TATTTTCTT
 245501 TAAGAATGAC AGGCAGTCA TAAAACCCA AATGGAGGTA AAAAGGGAAG
 245551 AAGTTAGGAG AGAGAGAAAT CAATAAAACA GAAGAGGTTT AAAATAAGAG
 245601 CTCTAAAGGG CTGACAGCTA TAGGAGACAG GAGAGGAGGA ATAGCCTGG
 245651 AATTTAAATC TCAGATATTA AACTTAAGAT GAAATAGAAA AGAAAGAAAG

245701 AAAAAAATGA ATTTTAAAAT GAGTGATTG AAAAGGAGAT AGGTTAAAGG
 245751 CATAGTAATT GATGAGTTAA AATAAAAGTA TGAGATGATG CTTTAAAT
 245801 AGAAATTAAAC TAGGATCTAG AAATGGCTGC TGAGACTATG GGAAGGGAGTT
 245851 CCCGGAGAGC AGGGGCCAGG CCTGGAAGCA CCTCCTGTGC TCAGCCTCGC
 245901 CCTTGTCGTT TTTGCGCTGC TCTGGACAGG GAGCATTTC CAGTCTCCAT
 245951 GGGCAAGGGC TGCCCTCCCA TGTGCACAGG CACACAGCAG GCCCAGAGGC
 246001 CTCAGCCCC AGACCTATCA GAGAAATCCT GAACGCATAG ACAGGGAGCC
 246051 CCACAGACGC ACTGAGAAAG CGCTCAGGCT ACGTGCTGGG TGAGTAAAAA
 246101 CTTATCAAAA AACGCAAGTG AACAAAGGCT CCTCCTGCC TCTTTGGGA
 246151 GGAGTGAUTG GTTCCACTG CCAAATCTTC AAACACTGGT TCTCAACTCT
 246201 TTCAGATCCA GTGCCGACTT TTTAGAACAA ATATTAAATA ACACCCCATG
 246251 TATTGCCCTG AAACGAAAAT TATAGACAAT GTAATCCACT TCCACACTTA
 246301 ATTTCACAAAT ATGATGTCCT AATTAAAATA TAAATGAGAA ATACAAAGGA
 246351 AGTAATTGT AGTAAAATAT TACATATTTC AATATGCAAG ACCACAGTGG
 246401 AATTCTATAAT GATGTAGCCA GATGCTGGCA TGAAGGCAGC CTCTACAAAT
 246451 ACAACTGATA CAGGTTTATG GAATTGGCAA CTCATATGCC ACAACACTGT
 246501 GTGCCATTG GCAACGAGAT AATGATGAAC AACTGTTGAT AAAGTTCTGA
 246551 ACAAAATAAT GTGTACTCAT TCCCTGGTT TTATAGTAGT TGTATCCCAG
 246601 AGAAATTCCA AGTATATTAA GCCATGCCAA AAATACTTG TATTCATGGA
 246651 TAACTAGAGT TAGGTTCTAG GCTCAAATAA TTATAAATAT GTTTCAACT
 246701 ACGTGAATAT CCAATGGGAT ATCCAAAAAA TGCGGCATG TGACAATGTA
 246751 TTGTTGTGAA GGACTGTCTT ATACAATGCA AAATGCTGG TATCCCTGGT
 246801 CCTTGCTCAC TCAATACTAA CAGCAACCCC ATCCCCACCT CAATCATTGA
 246851 GACTGCTGAA AATGCCCAAG TGATTGCCAA AAAAACCACT ACAAGGCAGT
 246901 TCTGCCAAC TTAGAACCCAC TGTCTTAGAG GGAGAAACTT GTCAAGGACTA
 246951 GAAGGCATTT GACACCTCCT TTGGGTTTCC TCATGGCTAT ACATCCCCAG
 247001 TCTCAAAATT TTTAGGGAAA TTTTTGGGGT AAAAAGGGAC ATTGGAAGC
 247051 AAGAGCAGAA GACTCTGAAA GAGATACCTA TGCCTTTGG CCAAGATGTC
 247101 CTGGTCTGAT GCTCCAGGGC GCCCTGAGAT CCTTGGGCAG ATAAGGATGA
 247151 AAAGAGGAAA GATTGGAGCT CAGGCAGAGC AAGAGAGGGC CTGCTGCTGT
 247201 TGTAGAAGAA ACTGCAGATG ACAGAAAGGG TGCTTCTCAA TTAGATAGTA
 247251 AATAACTATA AAGGATTATC GCAGTCACC GCGAAATCTC AAGATAACAT
 247301 ACAAAAGGGC AGAGGTAAAG GTCTCCCCT CCCCAGGATGG TTTTCATCCA
 247351 GAGACAATAC CAAGTCATTA GAAAGCTCTG GAAAGAAGCC AGCACTGCAG
 247401 GGTCGGAATG CGACCCCTCC TTGAAAAGTT TATTAGAGCG AGAAGAGGTC
 247451 GGGAAATCATG TTTCAGACTT GCTCTCGGCT TCAAGGGCTC AGAAAAAGTT
 247501 AATCTGATGT TCTCCTGACT CTGGGTCATT TAACTCATTCT CAAAAATGGG
 247551 TTTCTTGCTC AGAGCAGAAAT TTGAGGTTT GTAAACCTCA AGAAGAGAAA
 247601 AAAAGGTCT ACACAATTGT GTTATTGTGA TTGAAACAGTT TTATTCTCAA
 247651 AGATTAAATT TCCCAAATT TGCTTTAGGA ATACACGGTA AATGCAACAC
 247701 ACGGTAAAGAT GGCATTAAG CTCCCTGCGT TAGGGAGTAT CACTCACGGT
 247751 GATAATTGGG AAACATGACA GAGAATGGG CGCGCCATCT CAGAAGAGAC
 247801 GAAGAGGCTT TTCAATTACT CTGGAACATT ATTATTATT TTTGAAGGGT
 247851 AATGCATTGC CGCTCTAAC TGTCTGAAT TAAAGTGGAC GTTGAAAACA
 247901 TAGCCCTTCT ATGAGCTTAT TTTTATTTT ACTGAGCATA ATTGGACAAT
 247951 ATAAAAAGTT TACCTTTAA ATGTGTCATC TCTTGGTTCT TTAAAAACTGT
 248001 AATCACATCA ATAGGAACCT TGCTGTTGAG ATTATTATTGC TTGTCCTAGG
 248051 TTCCCTTTCC AGCTTATCAA ACTTGGAAA TTTAAAGATT GTTCACAAAT
 248101 AATGAAAGCT GACTTGTGC AAAAAAAAT AAAAAAAAT AATTATTGCC
 248151 TGAAAACAAA CTCTAAGAGA CACTATAGTG ATGTTTATGT TTTTAACCT
 248201 AAGATTGAA GCAGGAATAT TTTCAGACTT AGATTCTGCA AAATGATCAT
 248251 TGGACCAGAA CACATTTCA TGTGTTAAGG TCAGATCTTA GAGCCAGCTT
 248301 TGAATTCAAC AGTGGGTTCT TTCTTCTCA TCATCAAATG GGCTTAAAAA
 248351 GGTCAAGGAA CAGCGAGGTG CTGGTGGGAG GAAATCGCC AGAATTCTC
 248401 TTTCCTATTG TGAGTAAACG TTGAGAAGAT TGTACTTGGA GTGTACTTTA
 248451 TAGGTACCCG ATTGGGGACG AAGAGGAGAG GGACAGGGTG TGTCCCATG
 248501 AAGGCCCAAG CCCTGCAGGG AAGGGAGGCC ACGCTGAGGG TCCACTGTTA
 248551 GGGCTGTTG ATTCCCTGGGC AGCACTTCAG GAAATCTGTT CTCTTGGAAC
 248601 CCACTTATGG GGTTTACAAA GCAGAGAGCC TTGAGGCAAGG CTGGAGCTCA
 248651 GAATACTGGC TCCCTGGTCT GCCAGGGCAG TCTCAGCAGC ACGGGGAGTC
 248701 AGGTAGAGGC CTTCCACAC CTGCCCTGGC CTCTTGGCT CCCGGGAAA
 248751 GCTCCCGTGA GGGACAAC TG AGGCCATCAC CAGCAGCAGA ACGGGTAGGA
 248801 AAAGGGGCTC AGAGAAGAGT TTCAATTAG CCAAAGAAGA GTAAAGGAAA

248851 TGCTTTAAA AGCTGAATGA GGGTGGGCA GATGTGGGC CTTTCATTAA
 248901 TTCAAGTGT A CTCTAAATCT TTAAGAAGCA AGACACTAAT ATTACTGCCA
 248951 ACAATAAGTG GCTAAATTCA GTGAATTG ACACAGGCAT CACACCCATG
 249001 TAACTACTAT GCCAATCAAG ATACAGACCA TTGCTGTCA CCCAGAACT
 249051 TTCCTCCCGG TGCTTTCCA GTCAGTCCCC CCATCACTGC CCTGCCAAGG
 249101 GCCATTGCTG ATCTGATTTC TAATATGATA AGTCGTTTG CCTATTCTAA
 249151 AACTTCTTGT AAGTACTCTT TTGTGTCTGG CCTCATTCC TTGGCTGAAT
 249201 ATTTTTGAAA TTCATCACCT TTATTCACTCA GTCTCCATA GTCACTCAGT
 249251 CTTCACATAT CCACAGGAAT TCACACTGCG AATAAACAG GAAAATGATA
 249301 GATACAGTCC CTGCCTTCTT GGAGTTTACT ATGCGCCCTT TGACGCAGCT
 249351 TCTCTACTGC CAGGAATCTG TCCCAAGGAA ACTATCACAA TGATACAAAA
 249401 AGATGTAGGT GGCAGCATTA CCAATATTAG TGAGAAAGGC ACACAGAATG
 249451 GCCACCAAAG ATTAAGTCAT TTATAGGAGA AGGGAGGAC CAAATCCTAT
 249501 GCATTGTTAC ACATCACGCT CTAGCTAGAA GAGCAGCCAA TGGCAAAAGA
 249551 AATGCCAACA GGTAAAGAGC ACACAAAGTTA GGGTACACAG AAAGACCCCCA
 249601 CCGTGTGAGA ATTTCCACAT GGGTAACCCAG ACCTGAATGC TCACTCTGCA
 249651 TGTGGGATC ATCGGAGACT TATTTCTTT TTAGTCTTT CCTTTATATT
 249701 CCAGTTGTC TTCAGGGAGT ATGTGCTGTT TTGCAATCGG GAAATAGCAT
 249751 TTTACTTTAAA AGAACTGGGA GGCTGAGGGC GGTGATTACAC TTGTTTGAGA
 249801 CCAGCCTGGC CAACCTGGTG AAACCCCATC TCTAATAAAAA ATACAGAAAT
 249851 TAGCTGGGTG TGGTGGCGGG CGCCTGTAT CCCAGCTACT CAGGAGGCTG
 249901 AGGCATGAGA ATCGCTTGA TCCGGGAGGC AGAGGTTGCA GTGAACGTGAG
 249951 ATCGGCCAC TGCACTCCAT CCAGCCTGGG CGACAGAGTG AGACTCCGCC
 250001 TCAAAAAAAA AAAAAAAA AAAAGAAATA GAACCTGGC TGGGATGGGC
 250051 CCCATCGTGC AAGCGAACAC AAGGTATCAG CAGCACGGGC TTCAAGGGCCT
 250101 GGGGAGGACA GCACTTGGCA TAGCCAGCCC AGGCCCCCTC GCCCTCCCTG
 250151 CTGGGGGCTG CCTTTGCTCT CAGAGTCTG CCCCCTGCTGC TTGATTCACT
 250201 GGGAGAACAA CACGTAAGGC CGTCATTCT CTAATCAGCC TTCCCAGGTT
 250251 GATGCTGGGA GCTGACGGGC TGAATTGGCC AGTGTGTTCG TCAGGATGCT
 250301 GCTTCCTCCT CCCAAAGAT AGTTATAGCC AATTTCCTGA AACTATGAGT
 250351 ATGTCCCCCT ACATGGCACA GGGACTTGC AGGTGAAGTT AAGGCTCTAG
 250401 ACCCAGGGGA GTTATCCCTG GATTATCCGA GAGGGCTCCA TGTAACTCATA
 250451 AGGTTCTGC TATGTGAATG GGGGTCAGTC AGAGGAAATT TGAGGATGCT
 250501 GCGCTGAAAT GAGTCAGGCC AGGTGGCATC CTACAGCAGA CAAGGACAAG
 250551 CTGAGCAGAT AGCAGGTGGC CCTGGGTCCA CTGCACACTT TGCCAGGCTG
 250601 AGCTGACCAC AGACTGGCTA GCATGGCTGG AGTTCTATGC CCAGCCCAAG
 250651 CCGACTGGTC CTCTGAGTG GGCACCAGCA CTGACTGTGC TGCCTCTGCC
 250701 CAGACTCAGC TAGAACAGGA GTGGGCTGAG AAGCTGGGGG CGGCAGAGGC
 250751 CTCTGGAAGG CCCCAGGTGT TTTGTGGCCC TAGCACACTT CTCCCTTGGG
 250801 GACCTCAGCA TGGGTGTC CGAGCCCAAG TCAACTACTT TGGCCTCATT
 250851 TTAGGGGGTG TGGGGGGTGC TAGGGAGAGA GGCCAGAAGG AGTAAATCTT
 250901 AAGAAATGAG GTAGGCAAGA AACCTGGGTG TGCAAGGCCT GCAGAAAGCCA
 250951 ATGAAAGCAAT GAAAGGGCCC TGTAGGTTTG GAAGCAAATG GCCGTTCTCA
 251001 CGGTTAAGTT ACTTGGGAAG AATTCCATT TGCCTTACAA GGGATGATGTT
 251051 CAGCTTAAG CCTTAGCTGA AATCAGCCCC TTCTAAACTG TAAACAGACA
 251101 TTGATAGGCC AAACACAAC AGAAATTGGC TCCCTGGCTC CCAATCCCTG
 251151 TCCCTTTTTT CCTTACTGTC AGTTTGTGTT TTGTATGAAT ATCTATCAGC
 251201 ATCTCTGTG AGCAGGCTG AAGATGCAGC TAGAGAGAGG AGCTTCTGCC
 251251 TTGGGGCAG AAGAGAGGG AAGAAAGTGA GGAAGTGCTT CCAGTCTGG
 251301 GGAGGAGACA GAGAGGCCA CGGGGAGTTC TCCTAGGGGC AGGGCAGGGC
 251351 ACGGGGACAG CACAAACAGG AGGGGGACTG AGACTCTGCC AAAGGATCAG
 251401 AGTTGCTCTT CCAAGGCCAG CTGAGGTGAA TCACACCAAA TCTCAAACAT
 251451 GCTGTCTTC CTGCCCCACT TGCCAGGGAT CTGATCTAGC CACACTGACC
 251501 AGCAGGCTAT ATTGGTCCCT GCCCCGGGTC TGTCCAGGGC TTTGCAGTCC
 251551 GCCCCAGCTC CACACTGTG CCCAATGGAC TTCTCAGACT CCAGAGTTAC
 251601 TGCAACCTTT AGTTGGGTGC TGGGCCAC TCTGGCCCTG GACTGTAAA
 251651 CCAACCTGAA ATGGAAAAGT GGGTGGCATG GCCCCTTAC AGCTCAGCCT
 251701 CCAGCACAGG CTCTCCTGA TGGGAGGGAGGGCTGTG TGATGTGGCC
 251751 TAGGGCTCG TTTGCATGCC CAGCATTGTC CCCATAAAAG TCTTGCAGGA
 251801 AGCTGTGAGG GGTCCCCCTGC CAAAAAGACT GCGTGGGCCT GAGGGATCCC
 251851 TGCAGGGCAG GCCAGGAGGC AGCCATGCTT CACACCACAC AGGTGGGTCT
 251901 TTCATGCTTT TTTCCCTTT AAGTTCTAG TCTTGTGGCA ACCCTGCAGT
 251951 TGACACTTAC AAAGTGGTTT CTGCTCACTT GTCACACTACCA TATACTTACT

252001 CATCAACGGG CTCCCTGGGC CTCTCTGGTA ACCAGTCCC A TCTGAAGAAA
 252051 GCTGAGAGGT TTCCCTGAAAC ATGCTGCAGG GGCCTCTACC TGTCCCTCTC
 252101 AGCCTGGCT CTCcccAGGG GAGGTGGCTG GACCTTGGGT C TAAAACCTTG
 252151 GCCCTGGCCA TCAAAACTCT CCATGACATA CTTCTTCCTC TCAAATTCCC
 252201 CCTCCCCAGTA CCTCCTCCTA GAGTCCCTCC CAGACTTCAT CTCTAAATCC
 252251 AGGTTCACTG GCATATCCAG GTAGAGATCA GTGGACTACC TGGGCATGCC
 252301 CAAATTGTC TTGGCGCCCA CAAGCCATGA GCCCCTGAAT GAAGGGGCTG
 252351 ATTGGTGATG ACAGTGGTGT CCCCCAGGGCT TAGCACACAG TGGGCACACA
 252401 GTATGTGTT GTGATTGAAT CTATGGCAA TAAGAATTAT TTCGTAGTGT
 252451 ACATAGCTGT CTGCATGAAA AGACTATGTT TTCATGATCA GGACTTCTTA
 252501 CAGCACAGCC CCCTTAGGCC TTGGCTGTGG GGGAGGTTG GGCAGCAGTT
 252551 ATAACCTGGCC TCCAGGACCC AGAAGGCCCG CTGGGACCCA GGCCCCCAAG
 252601 CCTCTGTAAG AGGCCTTGAG CCTCTTCCTC TTAAAAGATA AAACACTAGC
 252651 CATGCGAGGA TTTCCTGAGA TGCGCTGGACA TCGGCTCCTCA CTAAGAGTC
 252701 GACAGCTCTC GATCCATCTT CCCATGGGAC CAGGGCACAG CCATGGGTGT
 252751 TGGTTCAAG GAGTTCTCA GGAGTGTGAA GGGGAGCACG GACCAGCACA
 252801 AAAACAGAAAT TCTGAGTCTG AAATAAAGGA TTAGAAACCC CTTCTTGGCC
 252851 ATTAAAACCT AAATAACTAG AAGATTGTT TCCTACTTTC TTTTAAAACA
 252901 AAACTAGGCA TTGTTGTGTT GTTGTGTTT CTTTTGTTT TTGTTTGT
 252951 GTTTGTTTT GAGACAGAGT TTCACTCTGT CGCCCAAGGCT GGAGTGCAGT
 253001 GGCACGATCT CGACTCACCA CAACCTCCGC CTCCCAGGTT CAAGCAATT
 253051 TCCTGCCTCA GCCTCCTGAG TAGCTGGGAC TATAGGCATG CGCCACCCACA
 253101 CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA CCATGTTGGC
 253151 CAGGATGGTC TCGGTCTCTT GACCTCATGA TCCACCCGCC TTGGCCTCCC
 253201 AAAGTGCTGG GATTACCGCC GTGAGCCACC ATGCCAGGCC CAAAACCTAGA
 253251 CATTGTTAAT GCTAGTCCTA AGTTTCTGCT AGAGCTTAGT GTGTCTTCTG
 253301 AACCCAAAGA AACATTCACT CATATTCAAT TTAGCTTCAT GCTAAGTGT
 253351 ATTTGTTTC AAAACTTGGG AAGCTGCTG GGAATAGCTG AGGAGAGCAC
 253401 TCAAGTGTCT AGAGCACTGC CTTCCCTCAGC CAGGCTGCAC AGACGTCTAG
 253451 CACAGGTGGC TGGCACCTGT GAATATGTAT TCTGCAATT CAGTAGCACC
 253501 TGTCAGGATG CTACGCCTCT TTTAACATGC AAACTACATA CCAACAACTG
 253551 CTTAGGGCTG ATAAAATCTG CCCTTAGGAG TTCAGCATCA ACCACAGCCA
 253601 GAGACCGCTG CTGACAGCAG GGCTTCCTAG ACTCAATTAG CAGTAGACAG
 253651 AGCCCACCAT CAGCATGACA GGAGCCAGCA GGCACAGAGC AGGCCTAGGC
 253701 CCAGGCCAGC ACGGCAGTGA CATTCCCTCAT CCCACACATG CATGTACATT
 253751 ACTGTCTCA CTTGGGTGCC ATCAGTCTCA CTCTCTGGTG GAAAGATGGT
 253801 GCTCCCGGGG CTGCAGGTGT GATGTAGGTG ACGTGAGATC TGCATGGCA
 253851 CAGCTGTGGC CTTTGAATTA TAAGATTGTC TCAAGGCCAT CAGCTAGAGG
 253901 ACTGGTGTG TGCCCTTAGT TATACCAGTA TCTATGGATT GGTCTCATGG
 253951 ATTCCCTGCC CAGTCCCCCG CCCTTTGCC ACTCTCTGAG GCCACAGGAG
 254001 GGATGAGTTC AAACCTCTGT CACAAGGAGC TTACGTGGTC TCATTGAGGA
 254051 AGTAAAGGA ACTGCCAGTT ACTGCTGGGT GTGGATTTCAC TTTACTTCCT
 254101 CAGTGAGACC TGGCCCTGGG CCACCAAGGC TCTCCAGGAT GTCCTCTGCA
 254151 TGTCAAAACT TCAATGCCACA CTCAACCCACG AGGGCTGAGC TGGAGGAGCT
 254201 TCCAGGCCTA CCCAGTCATC TCCATCCATC TTTGAAAACA TTCATGGAAC
 254251 CCCTTTAGA ACCAGCTGAT CACATTCCCA TTTCAGCAAT AGGGATTGTG
 254301 CGCTCCTCTG TCGCAGGGCC AAATGGCGCT GGCTCATGCG TGTGTCAATT
 254351 TAGCCCCTTG TCTCTTTCCA CCCTGGTAAG GCCTTAAGGG CTTCCCCACCT
 254401 GGTCCGTAGC ATCATCAACT CCCTGTGCTT TTTTTTCTT TTTGGCGGCT
 254451 ATCTCTCCAT CCTTATAATA GTCCCTGTATA ATAGGGGTCA GTTACAGAT
 254501 GCACAAACTA AGGTTCTGGG AGGATAAGTG ACCTCTCTGA GGCCACGTAG
 254551 CAGGAGCAGA ATTAAGACCG GATGCAGCTC CTGACCCCTGC GGCCAGTGCA
 254601 GAATAGCTGC AGGGGCCTGT TTTCAAAAGC CCACCCCTTG ACCTCTGCC
 254651 CAGTCTCAGT AACTCTGGCC TGCCTGTCT CAGCAGGGAA GAGCCAAGCA
 254701 GGATGAGCAC TGGCCCCCGCA TGTCCAGAAC GCTGTCCAGC ACGCTCAGGG
 254751 CTCCTGCCGC TGCTCAAAGA ACTGGCCTCT GGGAAAGTGCC ACTGCAACCC
 254801 AGAGGCCCGT GGTGAACAAA GCCCCGCAGG CAGCATGCCT CTTCTCTGCT
 254851 TCTGGGTTG TTATTTCAGA TGGCAACTGT GTGTGTGCGC TAGTGTACAG
 254901 TTATTTTGT CTTTGGCTT ATGGCCTCTG CTATAACACT GTCAGGTGGC
 254951 AACTTTTAA GAAAAACTTC TAGAAAATGT TGATCCAAAT TGTATGACTC
 255001 TGGTTGTCCC ACCCCCACCT CACCTAGCTC TGTCCCTCAT TTTCTACAAC
 255051 ATTCCCTCAT TTTCACTCTT AGTTATTTC ATCTGAGAAA TGGTGCCCCA
 255101 CACACTCTCC TGCCAAACTC CAGGGGAGGG CAGGAGGAAC GCCTGGGGCC

FIGURE 3, page 81 of 188

255151 TCTTTGGGG GTGTGGAAGG GACCCCTCGC ACGCCCCTC AGACCGGGGA
 255201 GCAGTCTGGC TCCAGCCCAC ATGCAGACCT TTGCTTCCTC CTCTGCAGAG
 255251 GGGTTATTG TTCATCACCA AAAATTAGGT AGGAGAGAAA AGAACGCCATT
 255301 CAAGAAAAGA ACTTTTCACA GTGCATTCC TGGCTTGGCT GTGAATGGCA
 255351 TTTGTAAGGC CCAATTACAT AAACACGGAG CTAACCAAAA TGCTATCTGT
 255401 CTTTATTGAA GGGGTGGAGG AGCAGGAGGG TGTTTATTG TAAAGGGGGT
 255451 AGGGGAAGTG TGAAAAGAG AGCTAAATTC TCATCTTAT ACTGGGAAGT
 255501 TAATAGATGC CAAATGCACA AGTAGGATAT TTTAAGGTAA ATTCCAAAAG
 255551 AACCAACTAA ATGGGCTGGA AGGGGAGAGA AATGGGAAGA AGAGGACAGA
 255601 TCTGCTGTT TCCATTAAA AACCTTAAT ATTATTGGA CTGTAAATTA
 255651 TGGGCTTATG TATCTTTGAT TAAAATATAA TTTTAAAGA GTGTTAAAAA
 255701 TATTTAAAGC AATAAGCTAT TCGCAATAGC AAAAACATGG AATCAACCCA
 255751 GGTGCCATT AACAGTGAAT TGGATTTTT AAAAATGTGG TACATACACA
 255801 CCATGGAATA CTACGCAGCC ATAAAAAAGA AGGAGTTCCCT GTCATTGCA
 255851 ACAACATGGA TCCAGCTGGA GGTCAATTATC CTAAGTGAAC TAACGCAGAA
 255901 ATAGAAAACC AAATATCACA TATTCTCACT TATAAGTAGG AGCTAAACAT
 255951 TGGGTACATG TGGACATAAA GATGGGAACA GTATTTGAGA CCGGCCTGGG
 256001 CAACATGGTA AAATCTGGTC TCTACAAAAA TTGTTAAAAT TAGCTATGCA
 256051 TGGTGGCATG TCCCTGTAGT ACCAGCTACT TGGGGGGCTG AGGTGGGAAG
 256101 ATCACTTGAG CCCAGGAGGT TGAGGTTGCT GTGAGCCAAG ATCACACCA
 256151 TACACTCTAG TCTGGGTGAC AAAGCGAGAA CTTGCTCAA AGAAAACCAT
 256201 ATATATATATAT GTGTATATATAT ATGTGTGTGT ATATATATATAT ATGTGTATAT
 256251 ATATGTGTGT GTATATATATAT GTGTATATATAT ATATGTGTAT GTATATATAT
 256301 GTGTGTATATAT ATATGTGTGT GTATATATATAT ATGTGTGTAT ATATATATAT
 256351 GTGTGTATATAT ATATATGTGT GTGAGAACAA AAGACGTGGG GACTAATGGG
 256401 TAGGGGTGGC ACTGAGCAAG GGTAAAAAAC TACCTGTTGG GTACTATGCT
 256451 CACTTCCAAG GTGACGGATT TGGTCATATT TTAAACCCCA GCATCACACA
 256501 GTATAACCTTT GTAACATCCC TGCAATATGTA CCCCCCAATT CTAAGGTT
 256551 GAGAACAAACA AAAAAAAGCA AAATAAAATA TTAAAGCAA TAAGAAATTG
 256601 TGACAGATCT AAATACTCTT CAAAAATAAA AAAAAAGAGC CATACTAGAC
 256651 TTATAGGAAA AATTTAATTG CTATTTAATT AAAAATTCAA AATATAAGGC
 256701 CAGGTGCAGT GGCTTACACC TGTAATCTCA GCACCTTGGG AGTCCAAGGT
 256751 GGGTGGATCA CCTGAGATCA GGAGTTTGAG ACCAGCCTGA CCAACATGGC
 256801 AAAAAACCAT CTCTACTAAA AATAAAAAAA CTAGCTGGGC AAGGTAGTGC
 256851 ATGCCTGTAG GCCCAGCTAC TAGGGAGGCT GAGGCAGGAG AATTGCTTGA
 256901 ACCCAGGAGG TGAAGGTTGC AGTGAGCTGA GATTATGCCA CTGCACTCCA
 256951 GCCTGGGAGA CACAGCAAGA CTCCGTCCTCA AAAAAAAATA AAAATTAAAA
 257001 ATATAGATTA GGCAGCTGAA GAGAGAATTA AAAATTGGA AGACAGCTGA
 257051 AGAAATAGCC TAGAATATAG CATAGAGAGA AAAAGAAAAG GAAAACATAA
 257101 AACAGCAGCT AAGATATGGG TGACAATGAC AAGAACCCAT ATACATCTAA
 257151 TAGGAGTTAT AGAACGGTGAAT AGCAAGA ATGAAAAAAGT AATGTTGAA
 257201 GAGATAATGG CTGGAAATT TCCAGAAATTG AAAAATACCTT TCATCTTCAG
 257251 ATTGAGAAG TATAATAAGT TCCAGGCAAA ATTATAAAAG TGATTCAAGA
 257301 CTTAATGGTA AAATTGAGA ATGTCAAACA TAATGAGAAA AACTTTAAAAG
 257351 CAACCGAGA TAAAAGACAT TACCTACAAA GGGACAATTAA TATAGACAGA
 257401 AAAAAAACAC AACAGATGCC AGAACACAAT GGAATAATAT TAGAAGCTAC
 257451 GAGAAGGGCT CAGGTATAGG GACTGGAAAT GCAGCAAAGG GGCAGTGGAG
 257501 ACATCTGTGC CGCTTCCCT CTGCTGGCCA AAATAAAAAA ATTTCATAT
 257551 GCAGATATTA CTAGTTGCCT TCCACTAAAC ATCTTCCCAC CTCCTCCTTT
 257601 AGTAACAAAAA TCTTGAAGTT ACCTGGACAC ATTGCCATTG AGATAAGAAA
 257651 CTACCTTCC CAGCCTTCT TATAGCTAAG TTAGCCTTCC TACCATGTT
 257701 TTTTCAATCA GATGGAGCAG AAGTGTATG TGAAATTTCAG AGAAAGCCAC
 257751 CTTAAGGAAG AGAGGGGATG TCCTCTTCT TCCTTCCCTC CCTGTCACTG
 257801 CCTGGAAGGA GAATATTTG GCTAGCTTCA TCCTGGACCA TGGAGCCAG
 257851 GGCCACACCC AGGGGATGGC AGAATGATGA ACTGAGATGA CCCTGGGTCT
 257901 CTGACAAGTT AATGGAGGAC ACTATGCCAG CTCTGGATCA CCCGCCTCTG
 257951 TATTCTTTA CATAAAGACA GCAAAACTTA TCATTGTTT AATCCATTAT
 258001 GTGGATCGTA CCTGTTACAG AAAATTAAAT CTTCACTCAT ACCAAAGAGC
 258051 TTTTGATTGT AGGAAAGAAA ACAGGAACCT AAACCTTGAG AGAAACCTTA
 258101 AGAAGGAAGA GAGGGAGTGA AGAACCCAGGG GAGGTAGTCA ACCCTGAGAG
 258151 CCTGAGGCTG GAGGGAAAGAT CTGCCCCATGC TGTGTGGGCC CTTCGTGCAA
 258201 CAGCGGGTTC TCATGGGGCT GGACACAGAG GGGCAGACTG GGGCCCCAGC
 258251 GGGCACAGCA GTGCTGGTCC CCAGAAGGGG TTGTCAG TGCTCTAAT

258301 AACCATCACT CTTGGTAAGT GTATGACACT ATCTCCAAGA ACAGAAAGAA
 258351 CATATAGTCC ATCCCATGGG TCTTTACAG TCACATAGCA GCATGACAAA
 258401 CAAAGTCCAT CCTATGGGTG CTTTACAGTC ACATGGCAGC CTGACAAACA
 258451 TAAAGTCCAT CCTATGGGTG CTTTACAGTC GCATGGCAGC ATGACAAACA
 258501 TAAAGTCCAT CCTATGGGTG CTTTACAGTC GCATGGCAGC ATGACAAACA
 258551 AAGTCCATCC TATGGGTCT TTACAGTCGC ATGGCAGCAT GACAAACATA
 258601 AAGTCCATCC TATGGGTCT TTACAGTCGC ATGGCAGCCT GACAAACAAA
 258651 GTCCATCCTA TGCGACCTTT ACAGTCGCAT GGCAGCATGA CAAACATAAA
 258701 GTCCATCCTA TGCGACCTTT ACAGTCACAT GGCAGCCTGA CAAACAAAGT
 258751 CCATCCTATG GGTCTTTAC AGTCGCATGG CAGCATGACA AACATAAAAGT
 258801 CCATCCTATG GGTCTTTAC AGTCACATGG CAGCATGACA AAGTCATCC
 258851 TTTGGGTCTT TTACAGTCGC ATGGCAGCAT GACAAACATA AAGTCATCC
 258901 TATGGGTCTT TTACAGTCGC ATGGCAGCAT GACAAACATA AAGTCATCC
 258951 TATGGGTCTT TTACAGTCAC ATGGCAGCAT GACAAACAAA GTCCATCTA
 259001 TGGGTCTTT ACAGTCGCAT GGCAGCATGA CAAACAAAGT CCATCCTATG
 259051 GGTCTTTAC AGTCGCATGG CAGCATGACA AACATAAAAGT CCATCCTATG
 259101 GATCCTTTAC AGTCACATGG CAGCATGACA TTTGAAAGTA TTCTGCTGTG
 259151 CTGGTGCAC TCTTAGCTTC TTTGGTGCAG TGAGGTTGTG CCTTGTGGGT
 259201 CAATGACTTC TGCACCGCTG GAAGCTCCTC AGAGAGATGG GGCTACAGGG
 259251 AAGAGGACAC ACGGAGACAC ACACACACAC ACACACACAC ACACACACAC
 259301 ACACACACAG AGAGAGAGGC TTTCAACAGG GGAGCACCCCT TGCACTCCAT
 259351 CTTTAGCAA TAAAAAGAGT GTTGGTGTG CTTCCCCCAG GACTACCCAC
 259401 TGCTCATCTC TGCGTTTG TGCTCACAC ATAGGCAGGG GTCCATATCC
 259451 CAGCCTTCCC TCTGCAAAGA GGACTGAAGT TGTACAAGA TGTGTTTAT
 259501 TTATTTCAC GAGGACACGG GGTCTGTGTA CTTGAGAGAA CTATTCTGAG
 259551 ATCTCACTGA ATACGATTAG AAACCACACA AGCCCTGGTG TCAGGACTCT
 259601 AAGTGGCACT TATTGAAAAG ATGGTGATGA CTTAGCTGTT TTAATTGGCC
 259651 TCCATGCAGG AGTACCCCTAG TTCTGCTGGT TCAGGCAGGG AGATTTTAAA
 259701 CCTGGCTTA TAAGAGCTGC ATTTTCCAGG CAGTTCTCT GTTCCAGGCT
 259751 CCATGCTGGG GACTTTCCGT ACACCATCTC ACTTAATCCT CACAGCTACC
 259801 CAGTGTGGCA AGTTCTATTAA GTATCCCCAT TTTTCAGATG AGGAAACTGA
 259851 GGCACAGGTA AGTAGCCAAC AGTCCCTCCA CAAGGAAGCA GAGGTAGCCG
 259901 GCTATGAGTT CTGAGCAGCT GGACTAGAGA GGCACAGGTT CGAAGTGG
 259951 GGACACACAG CTGAGAGTGG CCCACTCCCG CCCAGTCACC TCCGTGAC
 260001 CTCCTGCCCT TTCTGCCCT CAGCTCCTGC ACCTGGCCAG ACTTGGGGC
 260051 TCTCACAGGC TTGAGCCCC TTTCCCATGG CATCCTGGGA CCCCCACCAA
 260101 CTCCTATGGG GTTATGATCT GTCCTCCCA GGAGAATGGG ATGTAGACTC
 260151 CCCCCTCTAGT GGCTGTCTCT ACTGTTCTCA TCTCCAAATT CCTTTCCCT
 260201 CTCCCTCCCA GACAAGTGAC TTGATCTCTC ATTGGGAGGG AAAACTAGCT
 260251 CTGAAATTCC TACACATTCT CCCCAGTGCC TCTGCTTGA CTCTAAACTT
 260301 TATGGACTCC ATAGCTTTAT TCTTGCTAT GAAAAGCTAA GATTTGCAAG
 260351 CTTCAGACAT AAATTACCTT TCAAAAGCCT GTTTCTGCA AATCAAAGC
 260401 CTCTCATTTC AGAAAATGGT CTCTGGTATG ATTTCAGAAGA GCCAAGAGTT
 260451 TGATACCTT ATGCTCTGTG CACCATCTT TTCTCTGAGA CCATAACATT
 260501 CAGCCTCATG TCTTATTTA ATGGTGGAAAG AACTTAGGAG AAAAAAACAA
 260551 TTCACTGAAA ATGAAAAAACC ACTGGCCATC ATTCTGAAAT ACTATCCTCA
 260601 CCAAACATATG GCTTGGACA AAACGGGCC TCAGTTCCCT TGTCTTTGA
 260651 GTGAGGGGCT GGATATGCTA GTCTCTCAGG TTCTCCCTGG CTATGATGCA
 260701 GGTGTCTTAC ACTTTTGGG TCTGTTCCCT CATCTCTAAA GTGGAAACTA
 260751 GGTCTATTTA TGGAATTAAA TAAATAGAAA TAATGCGAGCT ATAACATAC
 260801 TGGCTCAGAG TGGGCCATTA ATGAATAGTA AGGGAGGTTT TGTTTGTGTT
 260851 TGTTTTATT AATCATTGTC TTATTCAAGG TCCTCTTGAG GACTAAGAAA
 260901 AGGAAAATAC GTGGTGTTC TCTGACCTCA AGGGATTGAA AGTCAGGCT
 260951 GAGCTCAGTG GCTCATGCCT ATAATCGAG CACTTGGAA ATCCAAGGTC
 261001 GGTGGATCAC TTGAGGTCAAG AAATTCGAGA CCAGCCTGGC CAACATGGT
 261051 AAACCCCATC TATAACCCCTA TCTATACTAA AAATACAAAA ATTAACCAGG
 261101 CATGGTGGCA CACGCCCTGTT GTCCCAGCTA CTCAGGAGGC TGAGGCAGGA
 261151 GAATCACTTG AACCCAGGAG GCAGAGGGT CAGTGAGCTG AGATCACAC
 261201 ACTGCACTCC AGCCTGGGCA ACAGAGACTC TGTATCAAAA AAGTAAAAT
 261251 AAAAAAGATT AGAAGTCAG AGGATTGGGT GGGGTCACCT GTACGCTGCC
 261301 CAGGGAGCAT ACTAAACTGA GCCTGCTGTG TGACACACCT CCCGACAGAG
 261351 GGAGTTACACA CGCAGCCCTC CCAGGGGAAG AGACAGAGAC CTACACAGCC
 261401 ACAGGCAATG CACACCGGTG TCTACTGCCT GCACGTGATCA ACCCATCATG

261451 CACAATGCAG CGGACAAACG GGGATCGTGA GACATTGAA GAAAGCCAAG
 261501 AGCACAAAAG GGAAGAACCA ACAGGAAGGA AAAGAGCAAC TGGCTGTGGG
 261551 GGATAGGAA CAAAGGAAAA ATTTTAAAT TTTAAATCT AATAAAAAAA
 261601 AACCTTACA GGGACTTGAT AAAACATTTC CATAAAATAA GAACAGGTTG
 261651 TTATGAGAAA GGAAATAGC CCAAGAAGTA TTTCTGGAA ATTAAAAATG
 261701 CAGTCACCAA CATTAAACCT TCCATAGAAG GAGCGAAGA ATAAGTCAAG
 261751 GAAGTATCCC ACAACTTACA TTAAAAGTCA AAGAAATGGA AAAGCGAGA
 261801 GAGAACTGA GAAACACAGA TGACTAGCA TACCAATATC TAACTAATAT
 261851 CAACCCAGAA AGAGAGAACAA AAGAAACTTA AGAGCAGGAA ATTACCAAAG
 261901 GAATAACAGA AGAAACTCC CCAGAGCTGA GCTAAGATAT AGACCTTCAA
 261951 AAAGAATGAC CCACTGAGAC AGAAGCAGGG GGGAAATGAAA AAAGACCCAC
 262001 AGTTGTATAG TTGCGTATCC TCTTGATATT TCAGAACATT TAGGATAAAG
 262051 AGAAGATTCT CAAAGCTTACA AGAGGTAAA GACAAGTTAT CAACAAAGGA
 262101 TCAGGAATCA TTGTTGGCAG ATTGGCATTA GCAACACTGG AAGGCAGTGA
 262151 GGTAAATTGCC TTCACAGTCT TTTTATTATT ATTATTATTATT TATTATTAT
 262201 ACTTTAAGTT CTGGGATACG TGTGCAGAAC GTGCAGGTT GTTACATACG
 262251 TGTACATGTG CCATGGTGGT TTGCTGCACC CATCAACCCA TCATCTAGGT
 262301 TTTAAGCCCCG GCGTGCATTA GGTATTGTT CTAATGCTCT CCCTCCCCCTT
 262351 GCCCCCAACC CCCTGACAGG CCGCAGTGTG TGATATTCCC CTCCCTCTAT
 262401 CCATGTGTTTCC CCAATTGTTCA ACTCCCACTT ATGAGTAAGA ACATGTGGTG
 262451 TTTGGTTTTC TGCTCCTGTG TTAGTTGCT GAGAATGATG GTTCCGGCT
 262501 TCATTCTATGT CCCTGCAAAG GACATGAACCT CATTCTTTT AATGGCTGCA
 262551 TAGTATTTCAG TGTGTGTAT GTGCCACATT TCCTTATCC AGTCTACCGT
 262601 TGATGGGCAT TTGGATTGGT TCCAAGTCTT TGTTATCGTG AATAGTGGCG
 262651 CAATAAACAT ACATGTGCAT GTGTCTTTAT AGTAGAATAG GATTATAGT
 262701 CCTTTGGGTA TATAACCCAGT AATGGGATTG CTGGGTCAAA TGGTATTCT
 262751 GGTTCCAGAT CCTTGAGGAA TCGCCACACT GTCTTCACA ATGGCTGAAC
 262801 TAATTATAC TCCCACCAAC AGTGTAAAAA CGTTCCTATT TCTTCACATC
 262851 CTTTCCAGCA TCTGTTTCCT GACTTTTAA TGATGCCAT TCTAACTGGT
 262901 GTAAGATGGT ATCTCATTGT GTTTTGATT TGCAATTCTG TGATGGCCAG
 262951 TGATGATGAG CTTTTTTCA TATGTTTGTG GGCGGACTC CTTCCCTACA
 263001 CCTTGTACAA AAATTAATTC AAGATGGACT AAAGACTTAA ATGAAAACC
 263051 TAAAACCGTA AAAACCCCTAG AAGAAAACCT AGGCAATACC ATTACAGATG
 263101 TAGGCATGGG CAAAGACTTC ATGACTAAAA CACCAAAAGC AATTACAACA
 263151 AAAGCCAAAAA TAGACAAATG GGATCTAATT AAACCTAAAGA GCTCTGCAC
 263201 AGCAAAAGAA ACTATCATCA GAGTGAACAG GCAACCTACG GAATAGGAGA
 263251 AAATTTTTCG AATCTACCCA TCTGACAAAG GGCTAATATC CAGAATCTAC
 263301 AAGGAACCTTA AACAAATTAA TAATAGAAAA ACAACCCAT CTAAAGGTGG
 263351 GCAAAGGATA TGAACAGACCA CTTGCCTTC CATTCTAAG GGCAAACAAT
 263401 TTTGTACCTA GACTCTATA CAAATTTAA ACATTTTCAG TATACAAGAA
 263451 ATGAGATTTG TTGTATATCT TTCTGATTT AAAAGTGGGG GCCTGTAGT
 263501 ACCAGCTACT TGGGAGGCTG AGGCAGGAGA ATGGCGTGAA CCCGGGAGGC
 263551 GGAGCTTGCAGTGAAGTGGAG ATCGTTCCAC TGCACTCCAG CCTGGGAGAC
 263601 AGAGCGAGAC TCCGTCTAA AAAAAAAAAA AAAAAAGTGG GGGCATGGAG
 263651 GGTGAGGAGT GTAATCCAGC AAGACAGAAA AGGAACCTAG AAAGAAGAAG
 263701 AGCTGGTCCA AGAAACAGAA GAGCTAAGCC AGGTATCCAG TGAAACAAAA
 263751 CCCCGGCAGG ACTTGTGGGA CAACTGTGTA AGAAACCTGG GAGAGAATCC
 263801 ATTACAGTTA GAACAGAAAG TCAGAAGGTT CTGAAAAGCA AGTCTCAAG
 263851 AAGAAAGTTA ATTCCATTGA ACAAAATAA GATGAAGAAA CTGGAAGACC
 263901 TCAGAGATAT GATGAAGAAT ACGTATGTG TATCCCTCAA TAAATTTTT
 263951 AAGGCAGTTA AAAATTCTGG AGAAGGCAA TTGCTAAACC AGAAAGACAT
 264001 CATAAAATAT TAAGCAAACCT AAAATATGTC ACGATTGAA GCAATTAAAG
 264051 GAAGATGAAG AAAGAGAACAA ATTTAACTAT GAAGCTAAA ATAATCTCCT
 264101 TCAAACAGCA CAGGTGAGTC ACCTGGGCTG ACATCTCCCC TGCGTGAGG
 264151 TTCACTGTAT CTTCTGCCA TGGATGAGGG TTACATCATC AGAATGTTGA
 264201 TAATGTTCTT TATTCTATT CACTTTAGA GTCAATGAAT AGAAACTTAC
 264251 ACTTATTACT TATAGTTACA GAATGTAATG AGGTAAAAAT TAATGTTTA
 264301 GACTGTATAA GTAACAGGGA AGGATCAGGG AATTGATTGTT TTCCATAGTG
 264351 AAGGGGCAAG AAAGGTGTTT AATTGCTCCA ATTGTATTAT TTGCAAGTTT
 264401 TGTTTTTTAT GGTATGCATA TTTTGCTTTT AAAAATTTC AAGAAAGTGG
 264451 TGCCATATTA AATATCTGAA GGTGTTTCAC AGGCTGTCTC AGGCCTATAA
 264501 GAATTCACTG CCTTTCTGT TCTGTGCCTT TTACTATATT TTTATTATT
 264551 TGCCATTCTT CAAAGATTGC AATTTAAAT TGCTCAATAT ATTTCTCAG

264601 TTGAAAATAT CAATGTATT ATTGTAATGAA AATGCCAATA TGTGTGTATA
264651 TATCTGGAA TAGCATAGAA ATGATTAAG CAGTTCAGCG TTGATCAATA
264701 ATCGTATTG ATTTGGGATT TTACTTTGT TTCCCTCGAC CATCTGTGC
264751 TTTGATATT ATTACCACCC ACTGAGATT TGCCCTAAC TAAATAGAAC
264801 TTGCTTAAGG AAATTCAAAA TCTAGCAATT GAATTCAAGT GGTGTTGCTC
264851 ACAGAATGAC AATACAGAAT TAGGACTTGC AGAGTAAACA GAAACCCAGT
264901 AGATGGGAAC TGCACCCCTG ATAAAATGTC TCTTACTGCC TTGAATACAA
264951 CCAAACATCA CAAACACACA GCCCCCCGGCT ATAAAAAACT TTTTTCAAT
265001 TATAAGGTCA GAGTCTTCTT TCAACTGCAG TAAGCAGTT GACCAAAACG
265051 TGTATTTCTG ATATGTGTGG TTTTGGAAAGA CCTAAGATT TCAAGCCCCA
265101 GGGTTCAGAA GGATGCGCA GTGTTTTGAA AAGTCCTCTG TATTCACGT
265151 TCTGTATGAA GCTGCCAAGT TGCTCAGGTG TTCCCAGGAA CAGAGAGGTG
265201 GCCGTGGGGC AGCCTCCAG GGAGGCCAGA TGCTGGCTGC AGGCTGTCTC
265251 CACACCCGTG CTGAGTGTCC AGCCCAGGCC AGGTATGTCT GCTTCTGTG
265301 GGCACCGCTA GTGCCCTAA GGAGACATT CACATCAGAG CTAGCGTC
265351 CCCTCCCTCT GTCCCTCTCA CAGAGGACTC AGAACTTCT CTCTCTTCC
265401 AGAGTTGCTA AGGGATCCG CACCCCTGCTT TACCTCTGCA TAACTGAAAT
265451 AAAAAAGTTT TCCAGGACAA GTGGCTGTAG CCTCTGTGAT GATGACAAAT
265501 AATCACCCGT GCGACAAAGAG CATCCTTCTCAT CTCGATGGC CGGCAGGGT
265551 GGTCCTGGC CTGCTCTAG GAAGAAGGAA AGGCCTAAC TCCCACAGTC
265601 ATTAGGACAA TCACAGGCAG GTGGTTTTTC TAGAGATGGT GAGAACAGC
265651 TCCCCTATG GTATAAGGAT CCGTGAGCAA TCAGAAACCA GGGTATTCTG
265701 GGAGATTATT GGAAAGGCAT ACTCTGGGTA CCATGGGTT TATGGCTGCC
265751 ATGTGCAAAC ACACACAGCG TGAAAGGAAA CGACCAAGGG GGTATGCACA
265801 AATCGATGTG GCCTTGTAG GGTCAGGAGA ATCACTGGTC ATTCTTTTTT
265851 TCTTTTCTCC AAGTTTCTC ATAGTCCCCA TGAAAGGGGA ATGTTTAGGG
265901 TTACAATGTT AATTGCTTT TAACTGACAT TTGCCCTGTG TCTGGGGTGT
265951 CTCTGCTCAG CTCACCTGCA GCATCTGATT CAGGCTGGAC GTCCATAGTA
266001 GGCCCTCCAG AAAGACTCAT GGACACACACA GCCCTGGCA GAGCAGACAG
266051 GCAGAGGCCG ACTCCAAATG TTCCCTCCTTC ATCAGGGTGT GGGGAAAAG
266101 CGCTGTGGAT GAGCAGGTTG ACAGCTTGC TCCTCACTGC AGTGTGTAA
266151 GTAGAAGATG AATGGTGTG CTGTTCTAGA GATAATTGAC ACAGGATTTT
266201 TCCACTTCTC TGCTTGGCA GAGGCACAGT TTTGTTTCT TTGACTCCAA
266251 GCTAAAATT TCCCCTGCCCC TTCTCTGCA CCTGCCCCCTG GTGCCCTCTA
266301 AGCCCCCTCCA TGGTGTGAC CAGCTGTGAC CCACAGCTTC TCCTCTTAC
266351 TCTGCCGCCT CTCTCTGAG CCACATGGG GTCCAGGCC TGTTCCCTC
266401 CTGCCAATGC TGCCATTCCC TGAACCTCA GCGACCTCAC CACAGACCTT
266451 CAGTCCCCC TCCTGTCAAC AGGAAGGCTC TCCCTCCAGC TCCCTTCCCT
266501 GCCACTCGTC TGCCTGATT CCTGTCCATT CCTGGGGCCT CTGGGACCC
266551 CACCTGTGT GGGCTGTG CGAGTTGCCA GAGCCAGTGA GGAGATGGCT
266601 CTAGCCTCAG AGAAATCACA CAGGAAGGCC TGAGTGCCTG GGAGACAGTG
266651 CTGGAGCAGG TACTAGGCCT GTGGCAAAG CTACTAGTC TCTTATAGGC
266701 TGGAGAGGTG GGGTTGACT GTCATACATT GGAGGCCAC AGCTACATCA
266751 ATAAGATACT GTTAGTGTTC TTGCACTCATG GATGACAGAA TTAAGGTTCA
266801 GAGAGGGTAA GTGACTTAC AGAGGTACAA TAGCTTATAA GTGCACATT
266851 CAAGGTTGAC ACCTAGGGTT TCTAAAGGA AGAATTCTC AAGGTGGGCC
266901 TGGCAGGACA TATGGGATAT GGAGAAGCAG AGAGCGGGG CTGGAGAGAA
266951 TGGCACAGAG AGGTGACAGG CCTGGAGTT AGAACAGAGG TGTGGTAGG
267001 TGGCTGTGCT CCCTGGCAA AAGAGCACCA GACAGAGG GGGAAAGGGTT
267051 CCTGTGTGAG AGGTCTCCAC CGGCCCTGTCC TCTCATCTCT GCTCTTCTC
267101 TCACATGCAC TCACACAGGG GCTTGGTGGG AATTCTTAGG ACCACGTGCA
267151 AGGGAAATGC CAGGAGAAGC CGTGTCTGG GGTATGAGAG CCAGCCGCTG
267201 AGCCCAACTC ACGTCTGTG GGAAGGCCAC TCATGGTTAG GGAGTCACCT
267251 TGACCTGTG TGAGACCTTA ACTAGTTAAT GTGCATGTT TTGAAATTCTC
267301 GCACATATT TTTATGTTG AATTCTCTGA CACGTTTTT TTTTTACTT
267351 TCCCCTAAGT AAAAAAAA AAAAAAAAAT GTGAGCAGGA ACTCAAACAT
267401 ATTCACTGTA ACTAGTAAAG TTAATGTGAA CTCTCTCTG AGCTCTTAGT
267451 TTCGAAGGGGA GGTCTGTCT GCACAAAGTCG TCTAAGGAAC ACTGTCTTTA
267501 GAGCCTGGTC TCTCCCTGCT GTGTGATGCG AATGAGAGTG GGCTGGCGGC
267551 CCCTGCTGTG GGCAGTGACT TTGGAGCGCC CTCAGGCCAC CGCACCTGG
267601 GCCTTGGGGT GTTTGAAAG CCTAGCTATG CATCCACTA CCCTAAAAGC
267651 TTTTGACAAT AGAGGCCAG GCACTGTCTC AGGAGGCTCT CTTCTAGCTG
267701 TCTGGGGGC AGCCTGCTA TTTTGTGAA GTTATCTGAG TGAATTATT

267751 TATTCCTTT TATGTCCTGA GCAAACCCAC ATCCTCATTT TATTAGTGTA
 267801 TTTCCAATTA TTGCATAATG ATTTCCAGTT TAGCTGGTC TGTGATATGA
 267851 GGACACTAA TCAAATATCT GTACGATAGG CCTTTAAGTT CTCTAGGGCC
 267901 AGAAGTTTC CCATCAATTAA AGCTTCAAAG AAATGGGTT TAGGCTCATC
 267951 TGCAACTGTG TTTTGTGTT TCTTTTATGG CCTTCCTGCC TTCTCCTGGT
 268001 GGCTTAGAG ATACCAGGAA ATGTGACGTG GGACTAAGGT ATTATTAGT
 268051 GGGTGTGCAG AGAATGGTT TATAATGGTT ATTACACAT TTTGAAGTGG
 268101 CTGCCTTGAA GCAGGACAAT TTATGTTCC ATTACAGTCA CCTTATGAGC
 268151 ACCCCCACACA CACAGTCTG CAAGGAGGG ACATCTACCC TGGATCCTGT
 268201 GGACTCCCTG GGATCAAACC CCTGGAGGT TCCTCTGGAG AGAGATTGAC
 268251 CCCCCAGAAC TTCCACACAC CCCACACTCA CCCCATGCC CAGAGGGATG
 268301 AAAATCTGAC CACTAAAATT CAAAGAGTAT TTCTCTGCCA TCCGGGGTGC
 268351 TCCTCCCCCTG GAGCCAGGG AGGCAAGGTG CCATTCTGGG CCTTGACTCC
 268401 TATAGCAATT ACAGGACAGA GTTATCAGC CCCATTGAC AGATGAGGAA
 268451 ATGAGGCCCA GGGAGAGAAG CCTTGGGCTT CCAGCAAGCA AGCAAGTGGG
 268501 TGCTGCTCTG CTCTGAGACT CCCCATGCC GGAACACGAG TGTGGGGGGA
 268551 AACAGCACCC CACGGCCTCC GGCCTATCCT GTGAGCACTC ATGCAGGGAA
 268601 ATAAGAGCAA AAGAGAGAAC TGGGAGGATT CTCAAACAC AGTGAACCTCA
 268651 ATCCCCATAC TTTTCACAC TGAGTGGAGC TCCCTTCCCC ATCTCTGAAG
 268701 AGGAGAACAG ACCCCAGGTC ATCAAGCCTG GTCTAGCCA GGGGCAGAGC
 268751 TCTCAGCTAG AGCACCTCGC ACTTGGATT ATTGTCTATG GTTCTCTTC
 268801 TGCTCTCACC TAGGCAAAGG GTTGGATT CACTGGAGGA AAGTTCCAGA
 268851 GGAAGAAAAA GGGAAAGCCT GTGAGCATGG AGTATTCTTG TTCAGTTAC
 268901 CAAGGGCCTG TCCTATGGCA GCCTGGACTC AGGGTCAAAG GAAACTTAGA
 268951 GGCCATGCAT GTCTCAGTAG AAGCAACTCT GGACAAAGCC ATGTGTTCGT
 269001 TCCTTGTGTT ATCTGGACA TGTTTGTGA GTGCTAGTTG TATGCCAGGA
 269051 CCCCCATTGG CTCATGTCGA TGGTGGGAGG GACATGTGGA CAAGTAGAGG
 269101 AAGCAGAGAT GATCGATGTT CTGAGGGGGT GTCCAGGGCT CTCAGAAATAC
 269151 ACAGGAGACT GAACCCAGCC AGGAGTGGTC AGGATAGTGA CATGCAGGAA
 269201 AGCCACGTGC CAGCTAAGAC CCAAAGCCCT CCACCCCTCC CTCCCTGAGA
 269251 GCAGGCCCTGT GCCCAGTTGC CAGAGGTGTC CTATTCTGC TCCCTATTCA
 269301 GGGTTGCACT ACCATGATAG GGCAAAGCAG TCATCATTCC ATCAAGTGACC
 269351 ACGTGTCTTG AGCAGATGCT GCAAGCCAGC CCTCTGCACA GCCCCACCGA
 269401 TCTGAAGAGG CTTGAAAGG GGCAGGGGCA AGATTCTAGC TGTGGTGTG
 269451 TAGCCCAAG GTGATGGTAG GCATGTTAA GGAACGTGAGG TGGCGCAGGG
 269501 TCGCCAGAAC GGGTGTGTA GTGGGGAAAGG ATGAGGCTGG AGACATAACA
 269551 GGGCAAGTCA GGGAGGGCGC TGCCTGGCTC CAGCCCGAAG GCAGTGGGAG
 269601 CCCCCATAAG ATTCTCTCCAG CTACTGAGTG GGGGAGGATT GGTGGGGACA
 269651 TGATCGGAGG CATACTGGTC ATCCGGGGGT GTTAATGGCT TCCTGAACTA
 269701 CAGCAGAGGT GGTAGGAGTG GTGGGAAACT GGCACCTCAA GAGACACAGT
 269751 GGTAGAAATG ACCTGAGGCC GGAAGTGGATT GCTGGGGATG GGCAAGATGG
 269801 TGAGGTAGTG CCAGGTGTC GATTGGGAA GCAGGGGCT TGGGTGGAGG
 269851 GTTGTCCGC TGAGGTGGG ATGTGAAAGA AGGAGCAGTC TTGATGGTA
 269901 GTTCCATTG GGCCATGTTG AGTTGAGGGG CCTGTGGAC AATGTGGGGA
 269951 AATGTCAGGC CAACAGTGGG GTGGGACATC AGGAGCTCAA GAGAGGATAG
 270001 TGGATACTGG GCTGGATAGT GAGTAGACAC CGCTCCAAGC TTCCCTGCA
 270051 CCAGCCTCGA TTGAGGGAAC CGAGTATCCA TGGGGGAGCA GAGGGAAAGTT
 270101 TCTGTATAGC TTATGCCACT CCACGTCCCA AAGAACACAA GCTTCTGGGA
 270151 ACCTAGAAAAA GCATGGGCA GGAGAAGCAG CCAAATACTC TCAGCAACGA
 270201 CCACCTTAA AAGGGCCTGA GAACACCAGG GTGGGAAGAT GGAGCATGGT
 270251 GGAGGCCAGT TCCATGGCC CTCTTGTGTT CTCCCGCAGG AGCCAGTCCA
 270301 GAGTGTGCAC TGGCATAAAAT GGGTCAGCAC ACCCCACCAAG GGCTCTAAAG
 270351 CATGGAGCAG ACAGGAATAG GGGCACACAC CCGGGGGGTC ATCAGGGCCA
 270401 GGGCCAGTGA GTGACCCGAG TCATCTAGAA ACATGACTCA ATCGACATTT
 270451 ACACCTGCCA ATCAGACATC TCCCCATGGG TGACCTGGGA GACCTATGTG
 270501 CACACCAGGG ACCCAGAGAG TTAAGCTCAC ACTCGGATAC ATCCTGTGAT
 270551 GGAAAGACAC CCCTGGAGCT CCTCTGCCAG AAGCCCTCCG CACGCATACT
 270601 CACCAACCAA ACCCCCTCAT CTAAGGCCAC ACAATTAA GTGATCTGTA
 270651 GGCAAGAAC ATGACTGTCT TCACATTGAA TCTCCATTTC TTCAAACAGT
 270701 ATCCTATCCT CCAAAATGCT CACTACCTAG CGCCTTAAAA GTCAAATCAA
 270751 CTCCACTGAG TTGGCTCACT TTTTAAAAGA TGCTTCTCCA GCTCTTATGT
 270801 TTGCTTTCTG ATGGAGGGGA CAACTAGCCT TAGCTACTTG GAGCATGTTG
 270851 AAAGCTCTGA GTGGTGTGCA GCATCGACTC TGTAACATCC AGCCTGAAAC

270901 TTGGAGGCAT AAGCTGGAA AATGTCCTAA GACATGGGTG GCATTTCAA
 270951 TGTAATTATT GCTGGTATTG CCATTTGGCA GCCCAGCTT CAAGCCAGCC
 271001 AACTCCCTCA TTTTATATT ACTTTTAGTC CCACACTATT TTCTGTGATC
 271051 CATTAGCTCT AGGAAGTCAT TAAAGCTA TAATCACGGC GCTTGCTCA
 271101 GGTGGATGCA ATCCAGATAA ATGGACCCAG ATCCACTCCT CGAAGAACCC
 271151 TCAGGGCTCCA ATTCAAGCGCT ATGCACCCCC AATTAAACAA GCAGAGGCC
 271201 CTGGCCCCGT GAGTCTTAC TCATCTGCAT TAAAAAACTA GGGAAAGTGT
 271251 GGGCAAGAGT CCGTGTGAGA GGACGCTTAA CAGCCCGCTT CCTAGTTGGA
 271301 AAATGTACCT TTGGCCTTGC ATTTGGGTCA CAGGTGCAAG AAGCCCCCAC
 271351 CTAGAATGCA ATCATGATGT CCCTCAATGG TTTGCCTCAT CATCCTGGTG
 271401 CACGCTGTCT GGAAGTAAGC TTGCCCCACCA CAGCCCCATG CTGGTGAAG
 271451 GGCAGGGTGG GGGCTCTGGG CCTTACCGGA GAGGACGATA TCCCAAATCG
 271501 AGCACTGTGG GCCTGCGACCC CGCCCATCCCC GAACACAGGC CTGTGCCAG
 271551 TTGCCAGAGG TGTCCCCTG CCGAGACAGG GGTGTGTTGC TGTGATAGGG
 271601 CAAATCATTG ATCATTCCAT TAGTGGTCAC AGGTCTTGAG CACATACTGC
 271651 GAGCCCTCCA TCCCCATGGA TCTGGAGAGG CCTGGGAAGG GGTGGACACA
 271701 GCCCCCTGCC CGGGGTACAC AGTGTGGTCA TGGAAATGGT GCTCACTCTC
 271751 CTCAAGCATT AGATGCTACA TGCCTAGAAG GGCTCAAGGG AGACAAGCAC
 271801 AGGCTGGGA ATCAGAAAAG GCCCCCAGGG AAGATGAAGGA CCTGGCTGGC
 271851 TCAATAGAAA GACAGGCACA CAGGGTCAGG CCTGCAGGG ACCATGGGAC
 271901 AGAACTGGCT GTAGGGTTGT TTAGATGGAG TGGGCAGGAG GATGTGTTGA
 271951 AGAAGATGTG GGGGCCCTGA TGACAAGTCT AGGCAGTGAC TTCATCAGTC
 272001 AGCCTCTCAC CCCTGCCCTG GGTCAATGGG GGCAGGGAAAT AAAATCCGTA
 272051 CCATCCTTT CTCACCCCTCC TTAACAGAAG AGCATTACA CAGCTCTCAG
 272101 CACTCAACGC TGACTGAGA GGCGGCTGTG GTCAGGAGAG GGGAGCAGGA
 272151 TGGGAGAGAG ACAGCCAGAA GGGAAAGTCGC TCAGCCAGCT GTGCCACAT
 272201 CTTCTCATGT CCTGGGGCAT GGGCTCTGG AGAGCAGGGC TCGAGCCTCG
 272251 CCCCCCTCTC CACCCACTTC ACACCTCAGC GTAGTGGAAAG GCAGGGTGGG
 272301 GTCAGTGCTT GTTTGTTGAG TGATGAGGAC TGTTCAAGGGC TGGCTGTGCT
 272351 CATTCCCCAC CCCACCCCTG CCTCCTCCCC GAGCTGGACA GCCCAGCTT
 272401 GCTGGGGAGG ATGCGGCAAG GGTCAAGGGC AGTTCCAGGG CCTCAAATG
 272451 ATGAGGGCTG CTGTCCTGTT GTTATGGTT GGAGCTCTTC ACCTTGTGCC
 272501 TATTGGTCT ATGTTCAATC TGGGATCTAG AGTTACAGTA AGTCCCAGTA
 272551 GTAATTCAACA TGCTCATGAA TTCACAGAGC AGGGTAAGCT ATGGGTTGCC
 272601 TATCTCTGCC AAGCCAGATA TTTGAATGG TTATAAATAT CTCCCACTGT
 272651 CAAGTAGAGG TCCCTCTGCT CCCTCAATGC AAACCACATA GCTTGGGATC
 272701 CATTAGTTCA TTCCAAATAA TTAAGAAGCA CCCCTCATGG GTGTGGTGGG
 272751 TATAATAATT CAGAAGGCAA AACTCTTCCT GTCCCAAGGA TCCCAGTGT
 272801 GGTGCATCAG GGCCCATCTT CTTGGTGGGC ATCACACTGC ATGCTGGAGG
 272851 AAGAACATCAGC TTTATAGGGC AGTTAATGTT GAAAGTCAGA TGCAAGATT
 272901 GGACTCTGAT TGCCACCCCC CCCAAGAAAAG GGGAGGGGAG AGCTGTTAG
 272951 GGAAGGCTTT CTAGAAAAAA AAAGAAAATTG AAGCTGTCCC CAGGGGACAG
 273001 TTTAGGGTT GATAGGGGG AATTTCAGGT AGAGGAGGCC AACCATGCAA
 273051 GGCCCTGGAGG GAGGGAGGCT GGGCCTGTCC GGGGGTGGCT TGCTGGCCAG
 273101 TCAGGCATGA CTGGACCATG AGGGGAAGGG GCAGAAAAGT CCATCTTGAT
 273151 TCCTCCTGGG CAGGAGACCC TTGACGTCTC TTTTGTTGTC ACGTGAGCTG
 273201 AACAGCCAGG GCCGTGAAGG TCGAGTCCCA GCCGTGCCCTG AGTCCATACT
 273251 TCAGTCCTCA AACCTTGAG AAGCCTAGGA GGGGAGAGCA GGGCAGACGA
 273301 GGCCAGGGCA TGGCCTGTGA GAGGCTCCTC AGGCCTTACA CATGGCCCT
 273351 GTGTGCTCAG AGGTCTCCAA GGAGGCCAG TTTTATGTCA GGGCCCATGA
 273401 CAAACCCCTCA CCAAGAACAG ACTAAACTGAG CACCTGCCCTC CATACCGATA
 273451 CCTCTGAGGCC AGGAGGCCACG GCCAGGCCACG CCTTCACACAT GAGGAGGTGG
 273501 TGCCGTGTCA GCACAGACCG CCAGGTGTTT CGGGAGCCTT GCTCACAGTG
 273551 TTTGTGTTAGG ACACCCCAAG GTGTCTTAGC TCCTGGACTA AGCCTCCTT
 273601 AGATACCTCT GGGAGCTGAG TATTGGGTGA GGCCAGGACG CCCTGGGGCA
 273651 GTGGGGATCC CCTGACTCTT AGGCCTTGTA TTCTTCCTT AAGGCTGCTT
 273701 GGCAAAACCC ACACCCCCAC CCAGCCTCCT CCCCAGAGAC CCCAGGCCCTC
 273751 CTGGCAGCCC TGGGTGAAG GGATGCCAG CCCAGGATGG CAGAGTCTCA
 273801 GGGACCAGAT GAGCTGCCGC CACTTCCATA TCAGTGACCC TCTCCTGTGA
 273851 GCCCCGCACC TTCCACCCCC TCCCCCATGT ACCTAGGCCT GGGCTTGGCT
 273901 GAGGACAAAT ACTGTCTACT CAAAGCAACT GCTGTCTTTC AGACATATTG
 273951 AGAAACATCA GTTACCTTT TTTAAATAAA CATATCATTG AAGCATAACA
 274001 CAGAGAGAAA ATGAATAAGT CATAAGTGTA TAGCTCAGTG AACTTCCACA

274051 GAGAACATAT CTGCGTAACC AGCACCCAGA TCAAAAGACA GAATCTTACC
 274101 AGTGCCCAGA CGCACCCCCAC ACCATGCTCT ATTCCAGTGT GACCCACCCA
 274151 AGCATAACCA CTACTCAGGT GCCCTTTGA AAGAGGAGAG GGCATGACTG
 274201 TGACAAAGCA GAAGGGTGGC TAACACCAGC ACTGCCACTT AGAGGGGTGC
 274251 CCAGGTAGAG GGGAAACAGG GAAGAGAGCA GAGGCCATGA GGTAAAGAAA
 274301 AGCTTCATGT GAGTGTGGAA GAGAACGACC CAGTGAGCGT GGCAGGACCC
 274351 TCGCCAACCTG TGACTTGGAA CTGCGATGTAG AACTTGAAAGC AATCACCTAG
 274401 GAACTTGTGCG TCATGGTAAT GGATTTCAGAT GCTTTATCAG TTTGGAACCTC
 274451 GGCTGCAATA TCAGTTTGGG ACTCGAACCA TTTCTAGACT CTACGCCAA
 274501 AGGAAGACAG ACTTTGAGT GGAAGCGATA CAAATTACCT GTGGAGCAGA
 274551 AAACAAAGAT TCCTGTTGGC ACTCAGGCTT CCTCCTGCTC TAGGTGAGAC
 274601 CTCGGGACCT GGGGGGGGC TGGCCCTTCC AATGCCCTCAG AGGTCAGACA
 274651 TGGGGCATG AAGGGCCCTC TTGGCTCAGG CTGGGCTCCA GCTCACTCTG
 274701 CCCTTCCCAA GAGCAGCTGT ACTCATGGCT CTGTGCTGA GGGCCCTGAA
 274751 GAACATCCTG CAACATAGGA TCTTCCAGA TTTCCCTTCC CTTCACTCTC
 274801 AGACACTTACCT CTCTGCCTGA TGCGAGGAGC CCTCGCCTGG GCAGGTGAGC
 274851 CTCTGCCTGA CGTGGAGATG CCCTCGCTGG GTGTGACTCT GCTTGCTCCA
 274901 AAGGGTACCT TGCTCTGGG ATCGGCTACA GGTCAATTCTC GTCACTTAA
 274951 AGACCTGAA ATCCCATCTT TGTGTTCCCT ACATTTCTCA GCCCTGGATG
 275001 AGATAGATGA CCAGCCCAGA CGTCTGGATT TCTGAGCCAC AGCTGTGGGC
 275051 AGTAAAAGGC AGGATGTGCC AGTGTGTTAG TGACAATAAG ATTGCCCAG
 275101 TAAGGGGCC CTATGCCTGG GCAGGGTTTC AACGTGGTCC TTGTGCTATA
 275151 GAGATTCTG TCCTCTCCCA TCACAGTTAG AGCTGGAGG CTGGAAGCAG
 275201 GAGAGAAAGG AGGTGGAGAT GGGCAGAAAA ACAAAACAAG AATGTGGGGC
 275251 ACAAAAGGAC AGGCAGGCAA CGGCCTGGCT GCATGCCAT TGCCCGGGGC
 275301 CCCAGGCCTC TCACTGTTCC TTGGCCTCAG TTTCCCTAATC AATAATGAG
 275351 GAGCCTGGAC TACATCATTG CAAAACCTT ATCCCTGCTC CTGGGCACTA
 275401 TGACCTGGG TTTGTGATGG GCCAGCTGCA TAGGAGCCTC CAAGAGGCAA
 275451 ACAGGGTGCA GGATGGGGCT GGGGCTGAGC TGCCGCCACA TGTGCACTGT
 275501 CACTGGGATG CACACCCAGA TCCACAGCTG TGTGTGAGAG TGTGAGTGAN
 275551 TGTGTGTGTA TGTGTGTGCA TGAGAGAGAG ACAGACAGAG AGAGAGAGAC
 275601 AGAGAGAGAG AGGACACCTG CACGTGCAAG GACCTATTCT CCAGTGTCT
 275651 CTCTGCACCT GAGCCTATAC TGGGTGCCAT GAGCCTCCAA AAGAAATGAA
 275701 AGAGTTCTC ACCCCAGCCT TGTGAAACTC TTACCAAGAGT GTTATCCTCA
 275751 CAAACACAG AGCACCATTC GTGGTAAAAA CAAAATGGA GGTGAGAGTG
 275801 TGATTGGCTT ATTTAGCTGA TGGCTCCTGT TTTTATTAGG AGCCATGACA
 275851 TCATCAAGTG GCATTCTTG AGCCTCACTT ACCAGATGAT TTCTCAGTAT
 275901 TTGCCCTCT GCCTGGAAAG TTCTTTATGA ATATTTAAC CACATTTCA
 275951 AAGCATAAGT CAGAAGACAG GTTAACACAT TCTGAAGCAA AACATGCTAA
 276001 TTCTGTGACA CGTGTATCTG ACCATATCCA CAGGGACACA GGTGCATAGG
 276051 GCTCCTGCTG GGATCTCAGA TGGGAAGACC CTCAGGCTGC AGGCCACTGG
 276101 CTCCGCCTCT CGGGCCCCAG GTGTTCTCTG AGCTGTGTAC ACTTTCTTT
 276151 GGAGAATCCA AGAGGGTCCC TGTCACTCCC ATCAACTGTG GATCCTGAAC
 276201 CTCTCAAAGC ATCTGAATCC ATTACCATGA CAGACAAGGC AGCCAGGAGG
 276251 CCATTCTCAG GCTCTGGAA CTGATAAATA TGGAGGCAGA GAGCAGGCTG
 276301 GAGTCATTGC GCAGTGTGTG AGTCTAGTGA GAGCCAGCAC ATCTGCCAA
 276351 TCCCATCAGG CTGCTGCTT CGCTCCTTC CGGGTGTCA GGGAGTGAGC
 276401 AGTGCAGATG CATTATGGCT GAGATGTGTC TGGAAATCAA CTCCATCGCT
 276451 GGAAGAGGG AGGCTTCTGA GCGCTCGGAG GACCCACACC TGGTTGCTG
 276501 TTTATCCCCA CTGCCAACCC TCCCTCGGCA GCCCCGGCTT CTCACACTGC
 276551 CAGGCCCTGC ATTCTGGATG TGAGCTGAGA CCACAGCCTG CGCATCAGCT
 276601 CAGAAGCTTC AGGTTGAAAA ACCCACACGT TCCGCCTGGC ACCGACTTTC
 276651 ACAGAAATGA GGGTTCTGC AGCTCCCTCC ACAGGGCTGCC CACATTTGA
 276701 TAAGTTTCCC GTGTAGATAA TCCTCAGAAC AGCAGTGCAG GTGACGGGG
 276751 AGGAGAGCCT TCTCACTCTC CTCCCAGAGG CTCAAGCCCT GGAAATACTC
 276801 CAAAGATCTC CCGAAATGGC TGGTGTTCGG TTTCAGAGTT GTGGAGTTTT
 276851 GTTTTATTCTT GACCAGGGAT TTAAGTGTCAA TCGTTCAAGT CCGAGAGGTT
 276901 AAGATAAATC TTCAACACCTC AGGAAATTTC TCTGAGCCGT CTCAGGTCTA
 276951 AAACCCCTCTG TTTGGGTCT TCTTCTCTGA AATGCCATT CTCAGGCTAAGC
 277001 TCATGTAAGA GCACGTATCG CCGGCTTATA GCAGACCGT TTTCTGAGAG
 277051 CATTCTGAGG CAGTTCCCT GTAACACCTT TTCTTCTAAA GTAAATGACC
 277101 CCAGGAGCCC CTTCCGCAGG TGAATGTGGA ATGTGTTAAC ATTGGGGAG
 277151 TTCCCTCCTG GAGACTGCAG TTCAATGGCA TTGATTGCA GTCCAGGCAC

277201 CCCTCACATC AGAGGACCAAG AATCTCTGCT TGTTGTCTTG AAAACCCAGT
 277251 GACTCTTGG CTTGGCTCAAG AAGCTGAAGA TCAACACAGA GGAGAGAAAA
 277301 ACACCAGAG CTGCCAGGCC TGTGAGACGC CGCGTCAGAA ACTGCTACTG
 277351 CCCCCAGTCTC CCCACCTGTT ATTCAGGGC ACACCTGCC TGCGCTGGGG
 277401 TGTCTTGGGA GAACAGAGAC AGGAGAGAGC CCAGTTCTGG AGAAGGCC
 277451 GCCGGGACCT ATGCCGGGCT GCTTTCCCTC TCAGCGGGC TTGCTGTCTC
 277501 TACCCCCAGTG CACAGAGGTG ATGCCTCTTC CTCTGGGCT GCTGTGGCT
 277551 GCCTTCCTAG AGGCCAGGAG CCTCCATGGC CCCCAGGCAT GACCCTGAAT
 277601 CCCCTGCCCTC CCTGTTTTG ACCATGCTGG CAGAGCTTGC ACACAGGTGC
 277651 ACGTGTGTCC ACAGCATAAC CACAGGGACA CACTCACACT TCAGCACATA
 277701 TGCACACACA GGCATACTCC CACACTGTT CCGCTGTTCT TTAAAATCA
 277751 CAGTACCTGG GAGTGTGAAA AGAAGTAAGG CCACAGATTG GGGTTGCTCT
 277801 TGTAATTCAC TTGCTTTAC CCCCTGTCAG ACCTAAAGCC ACCTTTTAT
 277851 AGCAAATCTT TTGTAAGGCC CCCCTTTATT ATCTTGAAT GGATACATGT
 277901 CATCAAATAT GACATATAT TGATATGAGG GATATATCTA AGTCTATCC
 277951 CATATATGTG TGGTGTATTA TTCTTTGGAT ATTTGTACCC TGAAATCTCA
 278001 TGTTGAAATG CAATCCCCAG TGTGAGGGT GGGGCTGGT AGGAGGTGAT
 278051 TGGATCATGG GGGTGGGATT CTCATGAATG GCTTGGCACC ATCCCCTCAC
 278101 GGCTGTCTC ACGGTAGTGA GTCCCTGCCGA GATCTGGTTG TTTAAAAGGG
 278151 TGTGGCATCT CTCTGCCAC TCTCTGCCG CTGCTCTTG CCTGTGAGAT
 278201 ACCTGCTCCC CTTCACCTT CTTTCATGAG TAAAAGCTTC CTGAGGCC
 278251 ACCAGAACGCT GTTGCCAGCG CTATACATCC TGTACAGCCT GCAGAACGT
 278301 GAGCCAATTC TTTCTTATA ATTACCCAG ACTCAGGTAT TTCTTATAG
 278351 CAATGCAAGA ACAGCCTAAT ACAATGTGAT AAAAAGGAGA AATGCAGGAA
 278401 AAGTGATGAG CATAAAATAA ACCTTTCACT ATGTAATAT CTGGGCACCA
 278451 GCTGCACTCA TGGAGGCCAG ATGTCAGCAC CTACACGTGG AACCCCTAAGA
 278501 ATACAACAGC TGCAACACAGA ACCTGTTACA CGTCTGTTAT GTTGACAAC
 278551 TGAATATTCA AGTGTGTCG CTTAGAGAT GGGATTCTCC AAAATGGTGA
 278601 ATGATTCTTG ATAAAATAGT AAACAGAATC TACAATTGAC AGCAGAGGTG
 278651 CATCCTTGGG ATGCCTTGC CAAACCCGGG GCAAAGGGGG TGAATGTCG
 278701 GTAACACATT AGATTCTAGG CTCAAGTAAT AGTAACACAGA TGTTTGCTG
 278751 CCGTGAGTGA GACATTAAA AATTCAAGATG AGATGCCAGG TGTGATGGTT
 278801 AATACTGAAC GTCAACTTGA TTGGATTGAG GGATACAAAG TATTAAGCCT
 278851 GGCTGTGTCT GTGAGGGTGT TGCCAAAGGA GATTAACATT TGAGTCAGGG
 278901 GGCTGGGAA GGCAGATCCA CCCTGATCT GGTGGGCACA ATCTAGTCAG
 278951 CTTCCAGCGA ATATAAAGAA GGCAGAAAAA TGTGAAAAGG AGAGACGGGC
 279001 CTGGCCTCCC AGCCTACATC TTTTCCCAG GCTGGTGCT TCCTGCC
 279051 GAGCATCAGA CTCCAAGTTC TTCAGTTCTG GGACTCGGAC TGGCTCTCCT
 279101 TGCTCCTCAG CTTGCAGACA GTCTATTGTG GGACCTGTG AGAGCTGCA
 279151 ACAGAACCTG TTACAGGTGT GTAAGTTAAT ACTTAATAA TAAATATATA
 279201 TATATCTCTC TCTCTCTTTT GAGTTCTGGC CCTCTAAGAG AACCCCGACT
 279251 AATACACCAG GCCAGCAGAA GTTTTGTGC AGGATGGTAC CGTGAAGGTC
 279301 AGGATCGCTA GGACCCCTGG CCCCACCCAT TAAGTGTAC CAAGGCC
 279351 CAATCATGT GACAACAAA ACATCCCCA CAAAATCCA AACCGCTCT
 279401 TGGGGACAGC ACTGCCCTTG TTGAGACCGT TTATAGAGAC TCCTGCTATG
 279451 TGCATGAGT CCATGTGGGA GCTAAGTGCT CCCTTGCGT GACCCATCAG
 279501 CCTCAGTCTG GAGCCAGTAA CCCTCATCTT GATCACTCGC GGAGGAAGCG
 279551 ACAGCCTCAG ACCCGGCCGT GTCTCTATGG ATGTGCCAC CACTCAGTCT
 279601 AGTGGCCACT CAAAGGCCAC AGTAGCTCA GCTCAAAGCA GCTACATT
 279651 TGGACATCAC TGACGCCATT GCCTCGCTGA CGCTGAGCAA AGTTACTGCC
 279701 AGCTCCACAG CGGGCTTTT CCCCTTAGTT AGATGTTGG GAGGATGCG
 279751 CCTCCAAGG AAGTCTTGGG AACAAAATTA ATAAAATTA ACAGGAGGTG
 279801 GAGAAGGCAC CCACACTCCC ATATCCCCTC CGACTTCCCT GCCTGGTGAC
 279851 TGACCTCTAG TCCAGCACTA CTGCTTCTGC TCTTGGGCT GGTGACAGGG
 279901 AGAGTGGGAG GAGGGCTGAG CTGCTGGACA GGGCAAAGGG GGAGCCGGAG
 279951 TTCATAAGAA GCTGTTGCC ACCTTCCACA AGGAATGCTG ACCTGTTAGG
 280001 GAATCTAGCT GGTGGAGGTT TTCCACTAAC ACAATAGTAA AAAATAAGT
 280051 TCTTAATACC AGGAGAGCTT TAGCATTTAT TCATGTTTC ATACAGTGT
 280101 CTTTCACCTC GGGGCCACCT GACAGATCTG CCAGTCACCC ATAAAAAGTA
 280151 TATGTGGATC CCTCTCCCAG GGATCCAACC AATTTGCTT TCTCTAATAG
 280201 GAATAAAAGA GAGGATTGTA AATGTCAGAC AGCAGATTGT ATAGCAACAT
 280251 CAATTGAACC AGGCATTCTAT AAGCAAATGT ACCATTATC TAACAAAGGT
 280301 CTGGGTGGTT TTGTTAATTT AAATGACCTG ATGCTGGGTT GCAAATTGAG

FIGURE 3, page 89 of 188

280351 ATGAGGCATT GTCTCGTAT TCAGGTGCAA GTGGAGGTGG ATATTGCCAC
 280401 CAGCCTTGG A GTCGGCTGGA TCTGCTCCAG TGCA GACAG CGGGGGAAACC
 280451 AGGCGAAGG TCTGCATGGC CTCGTGTGTT TTAACCCCTG GGTAAAAGGC
 280501 CATGTCAAGC CTTACACATG CAGATTCTGT TTGTGGTCC AAAGTGAGCC
 280551 TTGTACCTTC AACCTAGAAA ATTCAAAATT AGCTGAGATG ACAAAATATGG
 280601 ACACCTCAGG GAAAAGACCA GATGGAAACT GACCGAGAAT AGTTTGGCAG
 280651 CCTTGATGCA AGGCCCTCTT TGAATCCTGG GAGGATGAGG GGCTAAATCT
 280701 AAGAGGCTGT AACCACTTGA TTTCCCTCAG CCAGTCCCTG GATGCTAGAG
 280751 TACCCACACG CCAAATCCT TATGTAGGAT CCCAGGACCT TGGCATGGCC
 280801 AAATGCCAGC AGGTGACCTT TGAGAGAAC AACCCTTCA GCCGCAAAC
 280851 CAGCTGCCTG TGATGGCTGT CAGCTCAGCT CAACAAGAGA CAGACCCAGT
 280901 CCTGTAGCCA TGCCTCCTC CCCCCTGAAGC CCTTATACTG GCCTCTGTT
 280951 CCCAATTAGA GGAACCAGCA CATCCATGCC TTACCGGGAA GCAAGAGCCA
 281001 GGATGTTGGA AGGAACGTCT CGGCTCTGTC TCTGGGTCTT GGCTGAGAGG
 281051 CGGGCACCCCT CCACGTTA CCCAGTTTCTT CTTCTGATT TAATCCCTGG
 281101 TAGTTTCCC TTCCAGGGCC CTCCTGAGAG CCAGTCAGCT CTCAAGCAAG
 281151 GTGGCCAAGT GAGCCCTGTC AGGTAGGGGG AAGGTAAGCA TGTTGCTAA
 281201 AACTGTGTTT CCAAAGCGT GCTCAGTGGA CTATCTGTG TAGAATCAGC
 281251 AGACTCTAA AATGCAGCTT TCCGGGCTC ACCCCATACT TGCTACCCCTT
 281301 CTAGAACGCTG AAAATTGTT TCTAACAGAC CTGCAGACCT TCTAGAGGTG
 281351 AGAATCTATA GCAGCTCTCC CATAACGTTG CGTTTCTCA GCTAGGCCCTG
 281401 TCCTGGGCTT CCTCTAGGGAA AAGCCAGAGT AAACAGGTTC TTCGTTGAGT
 281451 TTCCCTGAGGC CCTGGTGTAA TGTGGTTGAA AGACCAAGGGT CAGGAGATCT
 281501 GGGTTCTGAT CTTGGATCTG CTACTAGTCT GCCCCGTGGT CCAGCCACGT
 281551 CCCTTCCCCA CCCTGGGCCT CAGTTTCCC ATCTGTCTAA TGACTGCATT
 281601 TGGCTATTG CTGGTCTGG TGTTGGACT AAGGAGTGAG GAGTGTCCA
 281651 GGGAAAGCTC CAAGTGATGG AAGGGACAGG AGGCAGGCTG AGTTCCTCCA
 281701 GGCCATGGGC AGGCTGCAGC ACCTGGTGA GGTATGCCA CCGTAGGTCC
 281751 CTGTTAGCAG TGTTCTCTAA GAACGTGAAG TTATTCAACCC AAGAGATACA
 281801 AAGATGCTGG GAGCAGTCTT TGCTTTAAGA AGTCAGTCT AGGAGATAGG
 281851 ACAAGGACAA ACCCCCTCCAG GCTCACAGAG CCAAGGTCCA GAGTGTGTGG
 281901 TTTGGAATGG ATGAAACAG CTCTGTGGAA CTGGGCCTTG GCAGAAAAGT
 281951 CAGATTGAA GAGAGGGTCT GCCAGGAGTG GGGCACCTGG GAGCAAGCTC
 282001 TGCAGGGGGGG CTTCTGGCA GGGAGTGGGA AGTCAGTGGA GCCAGACTGG
 282051 GACCACTGGG AGGGCCTTCA AGGCTAGAGT AGCCAGTGGT TTTAGGCCA
 282101 TGACAGGCAT AAACACCGCC ACAGGGTGT GAGAGAAGGG GATA GTGACC
 282151 CACTCACTTA GAAGTCACAG ACCCCAGGGG ACAGCAGCAG TGGGTTACCA
 282201 AGTGGCACGA CTTCCAGTAC ACCTGTCCAT GTTTGTTGG GGATTGTGAG
 282251 AAGACTGTAT CATA TGTGTG TAACAGTCTC TTGGAATT CAGAGTTTG
 282301 TGGCTCAGTC AACACTGTCA GTGAAACGAC ATCATGTTAG CTAAAATATA
 282351 TCTTAAAGAT AAGCCCATTG GTTTGGCAT TTATTGTTAA TTGAATTTC
 282401 CCAGAAATGG CAGCAGAAAG ATTGTTAATG TTCATGAATT TACATCAAGT
 282451 TAAACATCTG TTCCCTCTAA GCTAAACTCC AGCAAAGTTA CGGCAGCTCC
 282501 TAAATTAGAG CTGGGAGTAA AATCCTGCTT GTTCTTGCG CAGCTTAGCA
 282551 GTTTCAAAAT AGACCTCAGA ATGACACATC ACAACTGAGG CCCCTGTAAC
 282601 GCAGCCGCAC TGAGCTATAT AACATGGGTG CGAGACAATT AAGCCAGGTT
 282651 TTTGCTTTGG TGTTGAAGAT CGAAGCTTGTG CTGGGGCAGC ACATGACATG
 282701 ACTTACCAAGG CTAATGGGAA AAGTGTGGGA ACCAGTGTG CTAATGTCTG
 282751 GGGGACAGGC AGCCAAGAGG ATGGGGGCAT GTCTGTCTC TCCCCTGGGC
 282801 CTCTCTGGGG GTTTCTCAGG TGAGGTTTG GGATCTGAGC TCTAGCCACC
 282851 CTGCCAGTT GAAGAGGGC TGGAGGCCAG TGACTGCAGC TCCAGAGAGT
 282901 GGCTGGTTAC TATGTGGTTT CTGCAGGGAT GGCCTGTGTC TGGTTGGGA
 282951 AGAGAGATCC TCACCCCAT TGTGGCATT CAGAGCAGAC CCACCATCCC
 283001 CCACCCAGGC AAGTCTTCT TCCCCATGCC TTTGCCCTA GGTCACGCC
 283051 CCCTTCCCCA AAGGGATTGC TTCCAGCAGT GGCAGCTGAG CTCTTCATG
 283101 ATGTTGAGCC ATGTCCTGCG TTCCCCCTCTC CAGTACATT TGGATATTCT
 283151 TCAAAGGGGG ACTCCTGAGA GTAGAGTGC CCCAAGAAGG GAGATTCCAG
 283201 CACCCCGGAG ACTCATGGGG CTGTGGTCTT ATAGTGGCCT GGGGATTCCC
 283251 CCCACCCACC TTGACCCAC ATTCTGCCTG TGTATAAAGC TGTCCCCAAG
 283301 AACACAGATG GTCCACAGGG TCGGCTCTGT TCATTTACTG ATCAGAGCCG
 283351 GGGCAAAAAA CAGGGCTTT CCTGAAGCTA TGCCATAGCC AAATTCACTCC
 283401 ACAGGCCTCC TTACCTGGGT GGCTGTTCA AGCACAGGGC GCTCAGCTGG
 283451 CCTCTTCACA GGGTGTACCA CGGCTCTCCT GACCAGCAAT GCCAAGACAA

283501 GAGGGCAGAA GCTTCCTCC TCCTCTCCAG AAGCAATTCC CAGGCAGCTG
 283551 CCTTGTGCC ACCACACTTC TATGCAACCT AGTGTCCAGA GACCACCTTG
 283601 CCACCACCC TAGCCTGGCC ATGCTGGAGT TCACTCCATG GGAAACAGCAT
 283651 TGCAGGTTT GGGTGTCCC CACTGGGTGA GGTATGGAGG TCTGGGCTTC
 283701 AGTGAGCATG GCCACATGTA CCACATGGTC AGCATGCCCG CCAAGGAATT
 283751 GACATGATGG GTGACACAGG CACTAGCCCC CTTCAGAGAT CCAGACCCGT
 283801 CACCATGGTG CAGGGTGGCT GGGATTGTCT CCTCTTCAGG GCAGGGCCGT
 283851 AGCCACTCTC CAAGCCCACC TGCCACCTGT CTTCCACAGT CATACCGGTA
 283901 ACAGACACTG AATGAGCCCC TTCTATGTGT GGATGCTGGG CCAGGTGCTG
 283951 GGGGTACACC TGTAAGCAAG GCCCCACTGC ACTGGAGGAG CTCACAGTCT
 284001 AACAGGGAGC CTGATGATCC ACAGTGGATG AAAAAGTCAC AGAAATTGAA
 284051 GGCTGGAGAA GGCTGGCAAG AGAGAACAGG GCAGCACACG AGGGTGCCCG
 284101 TTAGGCAGGA TTGGTGTGTT AGGCGAGGG GAAGCTGAAGGA GTTGGTGAAG
 284151 AAACACCTTG CAGTGAGAGA GTAGGACGGG GCAGCAAGAG AGAGCCCACT
 284201 TTCCCGCCCC ACCACCATGC AGGTGCCCTCA CCCCTGGAT CCAAGGCTTG
 284251 GGCCCTGAG ACATGGCCTG TCTCCCTCTC AGAATCTGAG CTCCCGACAG
 284301 CCTGTGTAGC ACTTCCCACA TTGCCCCACAT TACACAAACGC CTCCCTCCCC
 284351 TTGACTCTTC GGAGTCTCCC AGCCCCCACCC ATGCCCTTTA CAGGAGCTTC
 284401 ACCTGCCACA GAATGAAGAT GGTCCCTTTG AGCACAGTCT GGCAGGGGCA
 284451 CAAGTGGCTG ATGGAATATT TACAATGTCT CCCTTGCTTC CCTTTGTTT
 284501 GCAATAGAAA GTGTTTCTTT GATGGACATT TAATTCCAGA GACTGCTACC
 284551 TGCTACCTAT CTCCCTTGC TCAAAAATTA AATGTGGATG TGCTGTTCT
 284601 CCTGCTATAA TCATCTTCCCT CTGTGTGAAG GGAGTGCAGT GGGAAATGAGA
 284651 GAACATTAGA ATCTCAAAG AGGGACAATT ATTGAGGGAA CTAGATTAAT
 284701 GAGGTGTCAT AACAACTTAG CGGGATCTGC GACTGACCTT TCTCATGGAG
 284751 AACGGGCTTG ATAATATGAG TTCATTACCA AGTTCTGACA TGAAAATAGG
 284801 ATCACACTCT GGGCTCCTCG GCAAGCTGAT CAATATTTA TCTGCCAAAG
 284851 CAGGCCTGGT CTGGGAGCAG GAGGAGCCCC ACGCATGTGC TGGCAAGGAG
 284901 CCTGAGGCCA GGGCCAGGGG CTGGCCAGGG CAGCCCTGTG GCATGGAGGG
 284951 CACCCAGGCT GGCAGGAAGG TGGCTGAGCC CTTCACAGAG CCTGCCAATG
 285001 ACGCTGTCAG TGTCAAGGCTT ACCAGGACAT GCAGCCTCTC TCCCCAAGAA
 285051 GCCCCAGATG GGGCATGTGC ACTGGCGGTG AGGAGGGAGG GAGAGGATCA
 285101 GGACATCTTC TGTCTTCTGT TTAGCCATGA GCACTGATTT AGTGCCAAC
 285151 CTGTCCCAGG CCCCACAGTA AAGGGGACAA AGACAAATGA GCCATACCCC
 285201 TCCCTTGGGG CTTTGAGCCC ATCTCACCAA GAGAAGACCC CAGGCCTCGC
 285251 CAACCACCTG CTAAGTCCTC ACATTTCTT GTATGCTATG ACCCTGGAAG
 285301 GCAGTAAGAA GCTATTATTA TCCCCATGTG AAGATAGGGA ATAGGAGTAG
 285351 GAAGGGCAGG GGAGTGAATG CCTTTCTAA GGTCTCACAG CTGAAGTCAG
 285401 GTGGTCTCT GATCTCCAC CCAGTGTCT GTCTGACCTT GTGGTACTG
 285451 TCATTAGCAG TGTTAATATC AGGTAGACAC GGCAGCTAA GATGAAGTCT
 285501 GTGTCCCCCT GAAGACCTTA GACAAGGTTG TTATAGGGTG AGCCCATCAC
 285551 CCTGGCTCCA GCTTCATGAA AATGCCCTGG AGCCACAGGA CTCGGTCCCT
 285601 CTCATTCAAC AAGCATTTC TACTGTAATG CTGCATGGGG AGCTGTCCAC
 285651 TTCAACTCT GCCTGCTCAG AACATGTAAT CCCATTAAGG GGACATAGCA
 285701 GATGCTGAAA GCCGCCCATC CAGCTCCCT CAGTCACCC CAGAGGTGAT
 285751 GTGCAGCTTG GATGGACGAT TCCCCATAAC ACTTGCCAAG AGCATCCAAT
 285801 CCCAGGCACC TGCACTTCA GCCTGAGGAC ATTTCCGGT CTCAGGCGTG
 285851 GACTCAGTCC TCATTGGGA GGTCCAGAAC TGCTAGCTGG AGGTGGTGAA
 285901 TTCCCTCAAG AGCAACCTCA GCTAATAGGG ATGGAAGTCA GTAGAAAAAT
 285951 ATCCCTGGCTC CCTCCCACCT CAGTGAAGCA ATTCTGCGGT GTGTTCTACA
 286001 CAGTCCCTCT GAGGACCCC TGGGATTGAA CCCCCATTGC CCACGGCGGC
 286051 AACCCACTCA TGAGTGAACC CTTTGTGGC TTTTCTCCCT TCCAGTCTA
 286101 TTCCCTGTTG CTTCCAGCAC TTCTTGGGAT CATCTCAAA TATGCTGCTT
 286151 GCCCCTAGAT CCTCATCTCA GGGACTGCTT TGGGGGAGCC CAAACTAAGG
 286201 CTGGGGCAAG CCTCACTCAG AAAGGATTTC ATAGCAGGCA GAAAGGAAAG
 286251 CTGAGGGAGA AGGCAGTCCC CGTGTGGGTG TGTGTGGTG TGTGGGTGTG
 286301 GGTGGGTGTG GGGGTGTGTG TGTGTGTGGG TGTGTGTGTG TAAGTGGACA
 286351 AGCTTCCTAC AGACGAGGTG GATTGGGCCT GAAGACAGGA AGGGGGTGGG
 286401 GCAGCATGAG AAAGCGCAGC TGTGTTCAGA GCATAGGGAA TTTCCAGCTA
 286451 TGGAGGGGGC TTCCCTGAAA TTCTCCAAAC CTCACTGTAA GGCTTGACTT
 286501 AGCCAAGGTT ACCACAAAGG CAAAGACAAA ATCCCCTTAT TTGGAACAAC
 286551 ACAAAAGTTCT CTTTACCTGG AAACCAGCAA GACTCAGAGA AAACACTGAA
 286601 ATGACTTTCC AAACATGTGG GCAGAAACTT GTGCAGTCCA AATCACGGCG

286651 GTCCTGCCCA CTCATGAAGC AGGTCCCCTG CGGGTCCCAA CCTGGCAGCC
286701 CCTGCTGAGC CTCATTCAAG GCATGGACGT CAAGGTATA TGCAAGCATC
286751 CCACCTTTTC TCTGGAAGAG TCACGCCTCC GGATTAAATCA ATGCTGAAGT
286801 TCAACTGTAT TCTGAGTCTC CCCATCCCAG GCTGAGTTAG AGAGGCCCTG
286851 GCAATGGAT CGGGGCCCA GCTCAGGGCT CCTTATGGCA TTCTCTCGAA
286901 CCATTCTCTC GAACCTCTGA CTCAGGTAA TCCACCTGCC TCGGCCTCCC
286951 AAAGTCTAG GATTATAGGC GTGAGCCACC GCGCCCGGCC TGCCACTATC
287001 ATTCTCAACA TCATCTTGAC CATCACCCAC AGGGGCACCA GGGAGGAGTG
287051 GGGTGGTCCC CAAGCCTCTG CCACACACCC CAGGGACCTT CCCTCCGAAG
287101 GAGTAAAGTA TCCTGTGGAC CAAGGCTAAG GCTAAGACTG GACCCCTGCC
287151 CTGTCCGGAG AGATCTGATT CCCTCCCTAC CTGGGAGCCA GGCCAAACAC
287201 ACACAGTGTG AGGGCACGGA GAGTGTGAA GGTAAGGGT GCCAGCTTAC
287251 ATCAGGTGAT GTTTAAGCAG AGGCAAGAT GAATACACCA GGTGGAGATT
287301 TGGGTGAATA GCACTCCAGC CAGGGGGATA GTCAATGCCA GGCCCTGGG
287351 CAGGAGCATG CCCAGTGTAC AGTGCTGCTG AAGTCCCCCTT GGTCCCCCA
287401 TACCCCCCAC CTCTCTTGTA GTCACCTGTG TGGAATTGCT GGGCAGGTGG
287451 GCAGGGCTGA CTGGGGTGAATA GATAAGAAAG ACATGAACCT TGGGTGTTGA
287501 CACTTTCTTG CCCAAAATGA TTGGAATTTT TTTTTTTTTTTTTTT
287551 TGAGACGGAG TCTCGCTCTG TCACCCCAGGC TGGAGTGCAG TGGCGTGATC
287601 TCGGCTCACT GCAAGCTGTG CCTCCCGGGT TCATACCATT CTCTGCCTC
287651 AGCCTCCCGA GTAGCTGGGA CCACAGGCAGC CCACACCACAT GCCTGGCTGA
287701 TTTTTTGAT TTTTGTAGA GAAGGGGTTT CACCGTGT TA GCCAGGATGG
287751 TCTCAATCTC CTGACCTCGT GATCCGCCCG CCTCGGCCTC CCAAAGTGC
287801 GGGATTACAG GCGTGAGCCA CCACGCCCGG CCAATGATTG GAATTGAGA
287851 AGAATAGGAG GAAGATCAGA AAACAGGTCT CGGAGCCGC ACAGCAGACG
287901 AGGGCTGGAC TACGTGAAAG AGCTCATTTC AATAATGGGC TCAGTGTAC
287951 TCATGGAGAG GGCCAGCTT CACATCTGGC CAGCAGTGTG TTGACAGCAG
288001 CTGCATCTGG GAGGTGGATT TCGGGATGAT TTATTTCTT TTTCTTTATA
288051 TTTATTTGCA CTTTCCAAGT GGTTCTCTGA TGGGCATGTA TTTCTTCTAG
288101 AATTAGACAA ATGTTTGAAG CTGGAAGAGG GGAGGGAGCC TTTAGCTGAA
288151 GACATGTCGG GTGGTGTCCA AAATGCCAG TGCTTCACAC AGCTAAGTCA
288201 CTCCCTATCTG ACCCCACAGT GAAACCAGCA GGGGGCAGGA ATGTAAAAAT
288251 AAAACTGGAA TTTGGTAACC TATGACTTTG ACACACCTTG CTAGGAAAAT
288301 ATCTATCTG GAAGCCAAGG CCAGCTGTGA GGGAGGAAAT CTATCCAGGG
288351 AGACTGAGCT GGAGGCTGCA GCTTGGGGC ATCTGCCTCT GGGGGCTGGA
288401 AGAAGGCAAG GAAGGAAGTT TTCCCTCCCC CACTCCACCT CAAGCCCTGT
288451 GGAATTGGGA TGACAAAGGC AGGGAGTGAA GGCAGGGAGC CACCAAGAGG
288501 GCAGCCCTTG GAGATGAAGG CTCAAAAGCC TTCCCCAAAAA GCGAGTTGG
288551 ACTTTGGGAT CTCGAGTGTAT CATCTGCACA GAAGCAGAGC TCTGAGCATC
288601 AGGCTGCCTT TCCTCCAGGG TCCACGGCCC TTCCCCAGTG CTGCGGGCA
288651 CCAGAGGAGC TCAGTAATT CCGACAAATG ACTTCATGAT TTAAGTTGG
288701 GCAAAGTCT CTCTGCAAC TCATTAAGC ACAGTTGCTC CTGGGGTAAA
288751 GAAGGATTTA AGATCTGTT CCTGGAATCC CTTGGTTCAT CTAGGACCC
288801 CAGTGGCAAG CTTGGCCCGG GCATGGAGTG CCCTCAGTAA AGGAAGAAA
288851 TGACGAAGGA AGTGGTGAAC AGCAGATGATG ACAGGTGCCAC ACACCTCCCC
288901 AAGGCCTTGG AGGCTCTGCC TGGGTTGTCC CACTGCCCTC TCCTGCCTGT
288951 CTTGTTTCAC TCTCCACCTG ACTCAGCCCCC TCTAGCCAG CCACACCAGC
289001 TTTCACCAAGT CTCCAGACGT GCCCCACCAT GGCTCCGTCA CGCCGAGTCC
289051 TGCTCCTGGC CTGCTCTTCC CTCTGCTTCC TCCCACAACT CCTCCCTCTA
289101 CAGGTCTCAT CCTGAACATC CCTCCCTTGG CCTCCCACCA CAGGCACCCA
289151 CAGTGCCAG GACTGGAGGC TGCCCCAGCAT CGGGCACACA GTATGTAAAT
289201 AAACACTGGT AAAAGGATGG GAGTGGCCTG GACAGTGTGG GCCCTAGCAG
289251 GGGGTGGGAC CGTGGGCTCA GGGAGCTGAT GCTGGAGACC TGGAGGGCCC
289301 ACCCCCTTCC CCCAGAAGAT TGACTTCTAG ACCTGCACAT ACCTTCTGAA
289351 CCAGAAGGTG TCTGTTGGGC AGTTGCCAGG GTGAAGCAGC CAGAAGTCTG
289401 CTCTCACAGG CAGCTGTGAG GATGTGAGGT GGGGCCAGC CTGGGGAGGA
289451 TGCTGCAGCA CCCCACTTCC ATCCCAGCAA GACCCACCTG GATGGTTCC
289501 CCCACCTGCC AGTGGTGGAG GTGTTGTCCA GCTGCAGACC CCTGCTCACA
289551 GGGGGACGCC AGTCCGTGTA GCTCTACAGA CTTGAGAAAT GGGTTGCCA
289601 GCTGGTGACC CCAAGAACTC CCAGGGCGCT CTCCATGCTT AGGCCAGCCT
289651 GGCCACTGGG GTCCTGAGAC GAAATAAGAG GCTCCCAGAA AGGAATCTTG
289701 CCCAGGGCAG CAGGCAGCTC AGAAGTGGTT TACGCCCCAC CAAGGTCCAG
289751 GAGGAAGGTT GGGGGATCT GCAAGGATGG GGCATCCTGC CCTTTGACC

289801 CAGCCTGTCC TCACCTTCAG GTGGCCCTGC TGCAGCATGT TCTTCGGAGC
 289851 CTGATTGTCC ACCGGTGTCTT CTGAGTACAG CCTCTTCCTG ACACCATATC
 289901 CACCTGCTGT GTACATCAAT TTTTCAGTAT CTGGGTATAA ATGCCCCCCA
 289951 CTCCAGGAAG TCCTGGGGC TGCAGAAATG CTGGCTCTG CAGACCCCTCC
 290001 ACACAGGCAC ACATCCATCT CCATTTACCC CAGCAGCTGG CCCCACCTCC
 290051 ACTTTCATTC TGTACCCCCA CTTCTGGTCT ATTGCCAGG ACAAAATTTC
 290101 AGCCTTTTC AGGGAGTGAG GAGCTAGACT CAGGCAAAC TATTCCTCCT
 290151 CTTCCCAAA ACTTATCCTT ATCCAGGCC AGAAAAGGA AAAACCCATC
 290201 AAGTTTTGTA GGGGCACAAA GCCACTATT TCAATGCCCT GTAGCTCTAC
 290251 AGACTTGAGA ATTGGGTTG CCAACTGGAG GCCCAAGAA CCCCAAGGAA
 290301 TCAATATCCT ACCAGGCAA AGAGGGATGC AAGCAAGGTG AGGGTGTGGG
 290351 AGAGAGGGT TCTTGTAGA GCATGAAGAC TCCCAGAGAG CAAATAGATC
 290401 TGATTATATT GAACACAACA ATTGATTTT TTCTAAATAA ACATGCAGGA
 290451 GGAAATGGCA ATGGGCATCT GTTCTGACA GAAATCAATT GACCCAAAT
 290501 TGGAAAGAAA TCTGAAATA CAAACAAGCA CAAGAAAAAG TGTTGGGCT
 290551 GTCCAGGCTT ATCAAGGGAG GGTATGAGGG AGGAAAAGAG GAAGGGAGGA
 290601 AGAGAGAAC AGACAGACAG ACTTCCCCAT CATCCCTTC CCCCCAGTAG
 290651 CTTCCCTGAT GATTGCTCTT CAGTAAATGT GGTCCTCATA ATGTCAGGG
 290701 AGAGAGTAGC TATCATGTTA TGAGCCCTTA CTGGGTGCCA TGCTGGTCCA
 290751 AAGGCCTGTA TGTGCACATC TTACTTAATC CTCGTAACAA CCCCTGTGG
 290801 GAGGCCTGG TATCTCTGCT TCACAGATGA GATCACTGAG GCACCCCTGCC
 290851 CAAGGCTACA TGCCGTATGG CAGCAGAGCT AGAGCTCAA CCCAGGGAC
 290901 CTCAGAGCTC ATGCTCTCTA ACACTTCTT CTATTGACTC TCCAACCTCG
 290951 GGATATTATC TCAGGCCCTA AACTGGCCTT GGAATTAAGG AGAAGAGCCC
 291001 CAGGCTCCAG CAACCCATTG GCCTTCAACC TGGATGGTC AGTGAGGAGC
 291051 CCATGCGTAT TCTCAGGAT TCAGCAAAGC CAGGCGCTGG AAGTACTCAT
 291101 CCCCCAGGGA GTCGGGAAGT GGGGCTGGAG GGGCTGCCCT CTCCGCTGAC
 291151 ACTCCTGCAA TCCCAGTGTAA TGGGGCGTTGC CCTGCGTGAT GTCCATCCTA
 291201 GAAGCCCCGTC ACCAGCAAGA TAAACTGTGC CATGCTGCAA TGCACTCCAG
 291251 GCTTTACTTC CCCAAACACT GCATGGTTCT GATGCTGTT AGCAAGCGCG
 291301 CCTGGGATAA AACGAGCTGT GTGCTTCGGT TTTAACGTTG TAAAGCTTCT
 291351 TTTTGTCTCT TGGTCATAGA CTTGTGTATA TGTTGTTT GAAGTAATCC
 291401 AGCTCTGGGA GGGTGCCTAA TTAACATAAG CAGGGCTTAT TAGTCCTGTT
 291451 AACTAAAATCCTA GGAGGCCAAG TATTCAAAG CAGCCTTTAA
 291501 GGTAGGATTA AGGCAAAAC CAGTGATTAC AAAATGGAAT TGGGGTAGC
 291551 TTTCCTAAAG CCTCTGTGGG GCTGCCGCTA TATATTCCGC TGGAAAGAATT
 291601 TCCCATTCCA TCTGGCAGTC ACTCTAGTCT GGCTTGAGT GGTGCTCAAC
 291651 AAATATTGT CAGATGGACA GATTCCCTCC AGCATTGCA TCATGGGCAT
 291701 GCATTCCATG TTCCATCAAT ATTTATGGGA TGGATTGGT AGCAGAACAC
 291751 AAACAAGTCC CATGACGAC AGTTGCACCG TGCACGTCAC ATAGTGAACG
 291801 CCTGGTGGCT ATTTGTGAGT GAGATGAATG GACCAGCGGC AAGAATGTTC
 291851 TCTCAAGACC ACGGGATAAG TCTCAAATA ATAACCTCAC CTTCTCTTC
 291901 AGGTGACACG TGCAACATGG CGGGCTACGG CCGCTTGAAG AATGCTCTTC
 291951 TGGCACTCCA GACCCGCTG CAGCCACTCC AAGAAGGAGA CAGCAGACAA
 292001 GACCCCTGCC CCCAGAAGCG CCTCCTGGTG GAATCTCTGT TCAGGGACTT
 292051 AGATGCAGAT GGCAATGGCC ACCTCAGCAG CTCCGAACTG GCTCAGGTGG
 292101 GCATCGTGT CAGTAAAGT CACATGATGG AGGAATCCAG TTTCCATT
 292151 CCCACCCCGG CCCCTGGTG TCTAAGAGCA TGTGTTCAAT ACCTCTGAGA
 292201 ACATCTCACA AACAAAATGA GGTCAAGGTTT TTCCCACCAAG CCACCTTTAG
 292251 CCTCTATTTA CAAACAAGCT TTCAGGCCCT CTCAGCTATC TGGCAAAAAA
 292301 CTCACTTCAG AGGGCCTGGT CTCTGATGTT TTGACTAGGA AATCAATCTT
 292351 TTCTCCCTG AGTAGGATTA GTTACTCAGC AGAAAAGTTA CAAGGAAGCA
 292401 GTGCTTGGTT TCCATTGAAC ACCATTGGAG CTATAACCTG GAAGTCCCCA
 292451 AGTCTTCTAC CTTAGGACAT CACTGCTCT TAGTATCCAA AGATCAAGAA
 292501 CCCAACCTC GGACTGCTTG TTGCAAGAAA GCCCTGTGTC TACCGTCAA
 292551 CCCCCACCAA GCCCTGCTCT CATTGGGAA AACACTGCA TTACACCTG
 292601 AGGTTTGCCCT CCCTCCCCCTG AGACTGCAGT GTTCAACACA GCACACATGT
 292651 CCTTTGTCGA GCTACAAGGT GGAGCAGGGG TAGTTAGTGT CTGCAACATA
 292701 GAAAGCAAGG AAAGAGTGAC CTCACTCACT GGGGCCACAG CCACTGCCAG
 292751 TTGCAGGGAG GAGCCTGTAG GGTCTGATG GTAGAAAAGC TGGGGTGGGC
 292801 TGGAGGGGCC TGCATTCCTA CTTCTGCTTA CTGGTTGTT TCTAAGGGTC
 292851 TGTAGCCCTA GAGCTGCACC AGGCAGGTAC AAGATCTGCA AGGAGAGTGA
 292901 GATCAGCCTC CCTGAGTTGG GTGGTGGGG GCGGTGGGCA GCCTTTTCT

292951 TGTGACCACA GACTGTCCAC CCAGTGGATG GATAATAAG ACAGGTCCCC
 293001 ACCTTTGATG CCAATTAAA GATATCTTA ACATGGCACA GGGACCTTCT
 293051 CAAGGCTGTG GCCCGGTCAT TGGGAAGAAG TGGGGTGGGG AGTGCCTAA
 293101 CATTCAATTGA GCCATGTGCT TGACATTGAG CTAGGCCCTT GACCTATGAT
 293151 TAATAAACAC AGAAGAGTTC GTTGTATGT AGGATAGTGG CAAAGAATGC
 293201 AGACTTTAGA GTCAAACCTGC CTAAGGTCAA GTGCTGCGTC CAGCATGTAT
 293251 GAGCTAGTGG ACCTTGGAG ACAATGTCGT TTGCTGTGTC CTCTGTGTT
 293301 AGCTGTGAAC CTCACAGGGT CATCATGAGG GTTAAATGAG CTAAGATAGT
 293351 GAATGGCTTA GAGTGGTACC TGGCATGTGG TATGTTCTT TTTAGACAT
 293401 GGTCTCGCTC TGTCAACCCAG ACTGGAGTGC AGTAGCGCAA TCTTGGCTCG
 293451 TTGCAGCCTC TGCCCTCCAG GCTGAAGCCA TTCTTCTGCC TCAGCCTCCC
 293501 AAGTAGCTGG AATTGCAGGC TTACACCAC ACACCCAGCT AATTTTGCA
 293551 TTTTTAGTAG AGATATGGTT TCACCATTTC GCCAGGCTGG TCTCAAAC
 293601 CTGACCTCAG GTGATCCGCC CACCTTGGCC TCTCAAAGTG CTGGGATTAC
 293651 AGGTGTGAGC CACTGTGCCT GGCCACATGG TGTGTTCAA TAGAGAGGTC
 293701 ATCAGTATTG TTGCCCCATCAT CATCATTTC ATTATTATTA TTTCTCTCCTT
 293751 AAATCTTCG ACCATCCTCT GCTGTAAGGA GGGGACGACT ATTATTCCAC
 293801 TTCACAGAAAT ATTTTCAGAT GAGGATACTG AGGCTCTAAG AAATCAGACA
 293851 ACTTGGCTGA GTTGTCACT GCCTGGGACA TGATGAAACT GAGATGAAAC
 293901 CCTGGCAGGC TGACTTGCAT GCACCTGCTC TCCTCAGGGC ACTTGGAAATC
 293951 TCCCTGGAGA GAATGGCTCC CACCAAGAGG CACCACATGG TTCCCTCAAG
 294001 GTCTGTAGGG ACAACAAGTA CCTCCAGAAC CCTAGTAAGG AGTAGCCACC
 294051 AGAAGCTTTG GAACATAGGC CCTCCGTCCC AGCCAGTCCT GAGCCTGCTT
 294101 TCAGGAAGCA CGTTGGGAAT CTCAGATGAC TCTGCTCTGT TCACTCATAC
 294151 CTGAGTGGCT CGCGCAAGCC CATTCAAGGC CTGCATCCCA GGAGGCTTGC
 294201 TGCCCCATGGC CCCCCGGGCA ACCGCCCTGC CAGCATGTCA CCACCTCCAT
 294251 CAGCACTAGG CCCCAGCTCT GGCTAAGACC CTGAGGGGCA GGGCCAGGG
 294301 CCTGCAGGTG ACTCAGGCTG CTCTGGAAA ATCCCAGGTC CTGATAGTTA
 294351 CAGCTACTTG CAGGAAGAAC CACCTGGCAA TTCTCAAAC TACCGAGCAG
 294401 GGAGCACCAA GGGCAGGTGG CATCAGCTTG TCTTGAACAG AAGCTGCTAT
 294451 GAGCTCTTGG TATCCAGGCC CACATGGCTC CAGGTAAACA GAGCCTTACC
 294501 AGGCACCTCA TTCTAACCTG GCAGATATGT GGCTGAGGC ACCTGAAGCC
 294551 ATTAACAAGC GTGGTAATTG GACAATGATT TCCTCTTAA AATTTAATAT
 294601 AGTTAAAGTC CATTTCATAA ATCTGCCAAC CAGAGCCCGG CTAAAGTGGG
 294651 CCTTTCCCTTG ACACTGAATC AAAGGTGCTG GGGAGAACT TGTCAGTCCT
 294701 ATAAAAAGTT AATCAATTTC CAATGCAGAA ATAGACAAAG GGAAATTTC
 294751 ATCTTTGGAA GATTGATCTC AGGCATTATG GTTGATCTCC CTTTTATCGA
 294801 ACACCTTAC TTGCTTGGTG AAGGGTCATT TTTTAACAT TATCACATTA
 294851 AATTGCCTTT AATACAGCAG ACCAAGCTGA GAATGTAAA TAAAGAGAAA
 294901 ATGCCTCTGC CCCCCCTCCC CCCACACCAA AATAAAATAA AATCATTTC
 294951 TTTCTTCTGA GATTTCCTTC TGAGCATTTC CCCCTGCAAG ACCTTCAGTT
 295001 CCGAGCACAC TGGCTTCTGG CTGTAGCTCC AGCTGAGTGA GGGTGCCTAG
 295051 AATTCTTACCT CTTAGTTACC TTGGGACGTG TGGCTGATCA TGCTGGCAG
 295101 CCTCTGTGTC CTATGGCTCA GACCACAAAC AGAGAGGAGT TTACGAGAGC
 295151 CTATGTCTGT AGCCTCCGTG CCAGAGTCAC AAGGGTGGAC ATCTGTGTCC
 295201 TGGGCAGGAC AAGGCAGGCA GGGGGGAAGC TCAGGCTCTAG GTGGATAGAA
 295251 CGGAGGGGTC TGGGAGTGTG CTGTGTCAG GCAGCACTGC CTGCCATGG
 295301 TAAGGGCTGA TGGGTGGGTG CATGATGCCAG CAGTGACCTC CAGCTCTATG
 295351 CAGCTGGAAG CTGGCAGACC TCTGTCCCCA CACTGAGTTC AGCCACTGTT
 295401 TGCTGGTTT ATCCGATGGG GTCTTTCTC TCCTGCTCTCC CCATCTATAG
 295451 CACACAGCAG TAGAGCAGGT GGCCTCAAGG ATTCCCACATCT TAGACTGTCT
 295501 GGGTCTGTCT GCCTAGACAA GGAAAAGACA CACCTGAGCT CTAGTCTAGA
 295551 GTCTGCCCA AGCACTGTGT GAACCTGGGG AAGCCACTTC CCCTCTCTGA
 295601 ACCCCAGTTT TCTCATCCAT AAAATGAAGG AGTCAGACAA GACAAAATCA
 295651 AAGAGCTCA GGTACCCCTC AAGGCCCACT GAGCTGCCC TGGATTCCCT
 295701 CTTGGCCTGA GTCATTTCA TCAATGCCTA TGACTCTAAA CTCATCTGAT
 295751 TCTGGCCTTG TTCTCCTCCT CACCCACAG CATGTGCTGA AGAAGCAGGA
 295801 CCTGGATGAA GACTTACTTG GTTGCTCACC AGGTGACCTC CTCCGATTTG
 295851 ACGATTACAA CAGTGACAGC TCCCTGACCC TCCGCGAGTT CTACATGGCC
 295901 TTCCGTAAGT TGGGTCCCAG TGGGAAAAGG GCTTATTCT GCAGGTGCTT
 295951 CTGCACCAAA ATGCTGTTGG GTGCCTGGAG TCTGCTCTCA GTTGTCTCCC
 296001 AGGTTGGTTT CTTATACAGA GGAAAGCTGG TGAATTGTT CTGCAACAAG
 296051 CCTGAGCTTT AAGAAAAGAC TAAACGGAGA GTGGATGGGG CCAGAGAGGG

FIGURE 3, page 94 of 188

296101 CTTGCCCTGT TCCTTTTAA TAAAGATTT TCTCGCTCT TGAGGGGCC
 296151 AGGACTGTAA TTGAAGCATA GCTGTGAGGG CACTGTGAAC ACCCTTGGG
 296201 GGTTCTATGA CTGAAGGAGA AGGAAGCAGA TTTTAGGGCT ATCCTCAGGC
 296251 TAGGGCCTGG CCATGTGGG AGCCCTACCT GGAGAAAAAC ACCCTGCAGG
 296301 AGGGCCTGGA GGCTTGGCCA TGCAGCGGCA GGGAGCAGTG ACTACCCAAG
 296351 GACAATGGAG AGTGAGGGTC CAATGTGAAG AGAGGCAGGG GATCCCTGGA
 296401 GAAGAAGGGA AAGTGGGTGC TGTTTAAAAA CAGAGGAGGT ACTCTGAGTG
 296451 CCCCTCCAAA GAGTGCCCTCA TGCATATGCA AGTGGATGGG ATGCCCTCAG
 296501 GACCTGTATC TTTTACTTGA GGTGATCTTC CAAGAGATTA CATTAACCAG
 296551 AGGTGGTGT GGGACAGGAC TTACAAGAAA TGCAAGATAC AAGAGCCATT
 296601 CGTAGCTCCA GGCAGGGGTC AGCAGAGGAG AGAGGAAAGG GCAGTGTGG
 296651 GCCCACGCTG GAGACTAGAG GGGACATCCT TGGCCCCAAA GAGATGAAGC
 296701 CCCTTACATT AGAACATGTT CAAGCTCTGC TTAAAGTGGG CAATGCATAT
 296751 ACCCTGGGT GTGACCTGCC AGCTCACAGT TCCTAAGTGC AAGCCCTGGC
 296801 ATTCAAGGAG TGGGTGCAAG CCCACCCAC CCCCAGGGG ACTGAGTACC
 296851 CTGAGCCACA GAGCCTGGTA TCCTCCCTCA ACCCCAGCCT TTACCTGGAC
 296901 TCCCGTTTC CAGCAAAGTC TTCCCTGCTTC AGAGTGACAT CTCTTGGGC
 296951 TGTGCTATT CCACACCTTC ACAAGGCCCTG AAGAGGGATC CTTGTGATT
 297001 GTTGGCAAGA AGGGCTCTTG TGGCAAATAG AGAGGTACTT GGATGACATA
 297051 AGAGGAGAGA AGCAAGCATG ATTCTTCCCT ATGGGCAGTG TCCATGAGCT
 297101 TGACGTGGTT GCAGGGCCT TTCCAGTTCA TATCATTCTT AGTACCAAAG
 297151 TCCACCCAG GTTCCAGAGC TTTGCTTGTAT TTACTGTGAC TGTGCAGGGT
 297201 CCCCCTCATC CTCCCTCCCCG CCCACTAGTC AAACCTATAC CTGCCTATGT
 297251 TGGTTCATAA TAAGGTGAGA GTGACTGGTA GGTTATCCT GTCGCGGAGG
 297301 TGTTTGCTT GTGGGCCAAA GAGATTATTT CCAGAAATGC ATTGGAATG
 297351 TGTGGAAGTA TCCACAACTC CCCACACCTG GTTCATGAGA GCTCATTTGTT
 297401 AAATTTTCAG GAATTTACA AGCAAAACAGT TAGACACTTG GTCGCTTTAA
 297451 ATTGGCCACG TTGAGAATAT TTACATCATA GAAATTACA CCACACATAT
 297501 GCTACAAAAA AGGGGAAGGG GGGACATTT TTCTCTCTA GGGAGCCAGT
 297551 TGTTATACAT TGACCTGCAT GTCACTGGAC AAGACCTCT CTCCTGCCCT
 297601 CGGAGTCCAC TTCTGGCAAT ATCTTCCCCA CCCACCTCCC CTCACTGAGA
 297651 CTCCCTGATG ATTCCATGGA ACATGAACAA CAGTAGGCTC GAGCAGCTAG
 297701 GGCAGGTTAC AGGAACAGCA GCTCTCTGAG TCAGGAAAGC AGCAACATGT
 297751 TCTCTGGGA TAGTCCAAG ACATTCCCAA AAACACTCTC TGAGCCTAGA
 297801 CCCCTCTGCC AAAGGAGTTA TGAAGGAAAA GCTCAGTGCA TTTTAGAGC
 297851 CAGAGGCCAA GACTGGACTT CAGGGATTG TGGGGCATAAC CAGGCATCAT
 297901 TACTTAATGT CCCAGATGCC GTCATCAAGC AGATTATAGC ACTGCTTGGG
 297951 CACCATCTTG GTGCTCTGGTA CCATAGCAGC CTCTGCTTTA TGAGCACAGT
 298001 TCCCCTGAGT GGGCTCTGGG CCAAACAGCA TGCTCTTGGC TTTGCTCTCA
 298051 AGGAAATGGA AGCATCCCTA TTGCCTATGA TGAAAGAGAA GGCTCTCCA
 298101 GCTTCCCTAG TAAGGTATT GTAAACATGA GCTACCTGAA AAAGGGAGG
 298151 ACGTCATTAC CTGACCTCCA GCCACATGTC TCATACAGAG CAATGTGGTG
 298201 TCAGCTCCCT TCGTCTCTGG ATTATTATT GGAAAGCTT ATAATCATCA
 298251 TTTTAAAGC AAATAGATT CTGCTGTGCC CTTGGACTTG TTTGAAACCA
 298301 GACAGCCAAA CCATCATCA CAGCCAGGCC CAAATAATAG ATATGCAATA
 298351 AAACGTAAC TCACAGCCAT TAAGGAAGGCC GCAAAATGAG TTAACCCCCA
 298401 CTATAAAGGC TTGACATGCA GCCACTTGGA GCATACGGGG ATCAATGGTT
 298451 TTTCAAAGTC ACAGGAACTC TAAACTAAAT TCCCCTAGCT CTGTTAATAG
 298501 ATTTATGGTT CAGCGAATT TAAATAGGT ATTGAAATGA GACATATAGG
 298551 TACAAGTTAT TACCCAGCAA TCGATGGGCA TTAAAGAAAT CTCACTAAAA
 298601 CCCAGAAAGT AATATCTAA ACATTTCAGC AACAAACATTC TGGATTTAAT
 298651 TTTAAAAGT AGAGCTGATG GGCTGGCAGA GGTTGAGGCA TTAGCATT
 298701 ATTTCTAGT CTCTATTTG CTGGCTGCCT TGGGTATAAG GCAGGGTGAG
 298751 GTCTGTGGGG TGACTCCAGC TCAGTAGGCCT ACCGATGCGG AGTCAATCGC
 298801 TTTACTAAAG GATGATGGGT TTGGGGCTGT TGTACCCAGA GAAGGAAGTT
 298851 GTATTTATCA GTTTTGAGG TTGTGGGGGG TGGTCTCTG AATCATGTCT
 298901 TCCCCTGCAG CTGGCTGGC CCTGGCTGGG CCATGCTTCG CACAGTCTGC
 298951 AGCTGGTGGA GGGTGTGCT AGGAGTCCCA CAGCTGGTGG ATGCTGTGC
 299001 TGAGCTGGTT CGTGATGGGG CTGTACCCCCC TTCCCTGGCTC TGAGGAACAG
 299051 GTGACTCTCC TCCAGGGTGG CAGGCAGTGCT CGTAGTCATGG GAGTCAGTTA
 299101 AGTCTTTTC TGATTGTCAG ATGGAGCCAA GGCTCCAAT TGCCTCTCTC
 299151 TGTACAGGGA CAGGAATGAA ATATGAGGGT GCCCCCACTT CCTCCTTTG
 299201 TCAACTAAAC GTTCTCTTTG CATTGTTTG GCTTCCAAA CCACAGGCTG

299251 ATCTAGGAAC TAAAGGCTCA GTGTCCCTCT CCAGCAGTGC CCTCTGCCTC
299301 TCCTTCCCCA CGCCACCCCC CACCACCCCC ACAAGGAGTA GTGCCACCTG
299351 TCCCTGCCAT GGCAGAGACC CAGGCTCCAG GGTCAACATA AGCAAGGTGT
299401 GTGCTGGCCC TGTCTGTTCA TCACAGTAAA TTAACCTCAA AGTGCTCAT
299451 CTAAAAAGCT TCTTGATGAT GCATGGTTT TGCACTGTT TGAGTGCTCA
299501 GGTTGGGATC AGGGAAAAC ACGTTGCTAA AACAAAGGATT TTTCTCACTT
299551 CAAATTCACTT GCAAGTTCT TCTGCTTTT AGAAAATAGT TGTCCTTTA
299601 ATTACTCCTA TGAGATCAA GCCCACGAAT GTGTTGGATG CATGGGAAGG
299651 TTTTGAGCAG CTAGCAGATA AAGGGCTTCA CGTGTGAAGG TCCGGTGACC
299701 ACACAGGAG GGTGTCAAGGA GGACCTGGGG TGCTGAATGT AGGGGAGCCA
299751 GACACCCCTC CTCACCTCTG ACATGTGTAA GCTCCAGGCA AGCAGAAAGG
299801 AAAACAGTGT TTTCATCTAC AGCACTACCA CTACAGCCAG GGCAACTCTA
299851 TGAAACAGAT GATATGGTCA CTTGGTGAAT TTACATCTGT TTTTCACCA
299901 TCTCTGTGCA AAAGTGAAGG GATGGTGCAG TTTCGTTAC CACACCACTA
299951 TCCCTTGAA CTAATAGTCG CTGGCCCCAT ACCAGACTTC CACACATGCT
300001 ATCTCAGCCA ATCCTCACAC CCACCTTG TGAGCAGGA TGGTAAAATA
300051 AGCAACCGCA AGCCTCCTCA CTACCCAGAT CTATCTGGCT CTTTATCTAG
300101 GTAGGGTGAG TTCAGACAAG GAGCTTAGAT GGCAAGGATA CTGCTTGTT
300151 CTACTCCATT TCATTCCTGA GTTTTGATA GTAACTAACAGATTTAAA
300201 TAGCATGGGG TTCATCAAAA ATTTTATCTG AATTCTACTTG GCTCTTGAAT
300251 TTGGAGAGCA AGCAATGCCT ATGGGCTGGT TTCAGTTTG GCTGAAGCCA
300301 AGACCATGGG TGCCAGTGAC TCCCCCTACC CCAAAGGAAG ACACTGGTT
300351 TCCCACACAG GATTGCAAA TAAAGTGGCC GAAGAACTGA TTCACTGCC
300401 TTGGTCCCTC ATTTCTCAA GGGCACAAAA CAGTTAACAGC TGGAGTGGCC
300451 AAGGGAGGAA TTGAAAATTG GCAGACAAGG CGGGCACGG TGGCTCACGC
300501 CTGTAATCCC AGCACTTTGG GAGGCCGAGG CAGGCAGATC ATGAGGTCAG
300551 GAGATCCAGA CCATCCTGGC TAACATGGTG AAACCCCGTC TCTACTAAAA
300601 ATACAAAAAC TTAGCCGGGC TTGGTGGTGG GCGCCTGTAG TCTCAGCTAC
300651 TTGGGAGGCT GAGGCAGGAG AATGGCGTGA ACCCAGGAGG CAGAGTTGC
300701 AGTGAGTGGA GATGCCACCA CTGCACTCCA GCCTGGCAA CAGAGCGAGA
300751 CTCCATCTCA AAAAAAAA AAAAGAAAA TTGGGAGACA GAAGGTGTGA
300801 GTCTCACCACT CTCCTCCCAG AGACAGAGT GGGGGTGTG TCCTGACTTC
300851 AAGTACATAG AGAGGGCTTC AAGGAGCCA CTTCCACGTG AGTCTCTGA
300901 GGCCAGCGCT GGAGGACAGG GTTCACAGTC AGTGTCCAT TTGAATGACT
300951 TTGCTTGCA ATATCGCCGT AGTTAGTA AGGCTCTTAG TACTCCAGTT
301001 GTATAAAGTG ATACCCAGCA TTAACTTGT GTCAGCACTG TACACTATGT
301051 CCAGTTTCAC AGATGAAGAA ACTGAAACCTC AGAGAAAGTAG CTAACCCAAG
301101 ATCACATAGT CAGCAGGTAG CAGAGTCAGG ATTTAGTGGG CGTGTCTGAT
301151 TCTAGAACCT TCTCATGCAT TTAAACAAAC TTTGCAACAC ATCTGCATTC
301201 TCCGTTGAAG AGAATCTCAC TGTCCTCACA GTGATTCCC TAAACTTCAA
301251 GCCCCAACTC AATGGTCTTC TCCTCCAGGA GGTCTTCTC AATTCTCTT
301301 TCCTCCACCA AGCCCCACAC ACCTTCCCTC GTGTGCCAC AGCCCTGGGT
301351 TAACAAGGCT GTGGCCTGAT TATTAAGAGT GTGGACTCCA GAGTCCAAGC
301401 TAGACCTGGT TTTGATCTT TATTCTGCCA CTGACTAAGT GTGTGACTTT
301451 GGACAGTCC CTACCAAGGG TTAAACTGGG CTTTAATTTC CCCATCTGTA
301501 AAATGGGAAT AACACCCGTG CACAGAGTTA TTCAGGACTA AAGGAGCTAC
301551 TTAATGTAAG GTGATTAGTA GCATGAGACT TTGCTTATAG TAAATATTAG
301601 GCAAAACATTA ACCAGGTCAA TGATGGGGC GGTGAGGGTA ATGATGAAGA
301651 TTTCTGTGTG TGCCCCATCA CCCTGTGCCA TGCCATTGTT GTCTTCCCC
301701 CTCAGGGACC ACAGGCTCCC TGAGGATAGA GGCTGCTTCA CCCATCCTGC
301751 ACTCCTGCTC AGCATGGGT ATGGCACCCA GGAAGGCTT GGTCAAGATT
301801 GCTCATTGAG GGCATGAAGG ACATGGAGAA ATACATCGGG CAAGGAGAGG
301851 AGTCCAGACA TGCACTGTG GCCAGCGATC CCAGAGGGTC TCTGCATGCC
301901 TCCAGGGGGC CTTGAGAAAA CAGGGGCAGA GGAAGTGCCT TGTGGGGGCC
301951 CCACAGCTGG AGCCCTGGT AGAGAAGCAT CAGCCTGGCT GGAGCAGGCC
302001 AGCTGGACAT CCCCAGCCTG GACATCCCTA ATCACTGGAT GAGCAACTGG
302051 GTGTGAGGGAG AGCCCTGCT TCTCACATGG GCTAATGATG CCTTATTGAA
302101 GATGAAAGTA ACTCACACTA GAAAGCTCTC ATCCTGACCA GAGGGCCCGT
302151 AACTGGCCAT TCAACCCCTCC TCAGAGTAAG TGCTCTGGTC GGCTGGCAGG
302201 CTGCGTAATT ACCTTTACCT CCGGCAGCCA CGTATGCAGA GGAGGGCTCT
302251 CGCTTAGCCC GCTCCTCAGC CCTGCGTGC TGCTGGCCTA CAGCCACATC
302301 CCTCGTGATG CAGCAGAACCC TGGCTTCAGC AGCCCAAGAC CAGCAGCCCC
302351 ACCCGGCCCA ACTCCTGCCA CCTCACCTGG AGGTCAGCTT TGCTGGCTGT

302401 GCAAATCTGC ATACCTTCTA AATAATTAT AGGCATAGAA TATGGGTTTG
 302451 TATTTCCATG CTGGGCCCTG GCAGGCTGGC AAGGCAGGCC TCTGGAGCAA
 302501 AACCGTCAGC CACAAATACC CAAGCTCCCC ACTGCAGGTG AGGACAAATG
 302551 CGGAAGGAAG ACCACCGTGG GAAGGCCAGC GGGTCCGCC TGAGCTACC
 302601 GTAGGCTGAG GCTCTCTGAA AGCAGGGTGA GCTCCTGGC AGGGAGGGAC
 302651 AGGCCCGTC TCATCTCCA TCTGTACACT TGGCGTGGAG TGGCATGGAA
 302701 GAGGCAGGCC ACCAACCTGA GCCTTCAGA GGAACCTGAC CAGGGCAGGG
 302751 AGAGCAGCAC AGGGAAAGGG TGAGGAATTG AGGTTGGGAA GCATAAGAGG
 302801 AGGAGAACCA TGAAAGATGA GGTGGTGTAA GGTCAAGAAA CGCACACAGA
 302851 GCTCACTTT GGGGAAGCAC TGGGCAGAGA CTCAGCTGTG AGCAAGACCA
 302901 CAGCAGGCC TGCCCATGGG GAGCTTGCCA CCTGGGTAGA GAGGCAGCGG
 302951 GTAGAGAGGC AGAAAGATGA CCCAATAAAC AAAGTAGGAG CTGAGAGAGA
 303001 GCGTCCTGGG TGCAAGGAGGA CCAACTGTCC CAAGAGGTCA GGAAGGGACA
 303051 TCGGAGTGGA TACCTGAACG CCGAGCTAGA GATAACTAGG CAGAGGGTGA
 303101 GGAAAAAGGT GTCCACAGGCA GGTGAGGGGA GCATGTGATC CCAAGGGACA
 303151 AGGGGCTTGA CTGAGGGAGG AGGCAATAC CAGGGTAGAA AGGCCGCCAC
 303201 CACAGTTAGG GCCCCGGAGG CAGAACTCAG ACTCAGAGGC CAGGGCTTGG
 303251 AGAAGGCCAG CTTAGCTCGG CTGTGAGGG GACCCCTCCC AGCCTCTCCA
 303301 GAGTTGCCCA GTGAGTGGGT ACTCCCCATC ACTGCAGGTA TGCCAGCCTG
 303351 CAAGCCGCTG GAGAGGGAGC TGAGTATCAG CTGGAGAGCT GGACTTGGCC
 303401 TTTGAAGGCC TCCGGTGTG ACTGTTGGGA CAGACATGCA ACCAGAGCTG
 303451 TTATTTAAGA CCTCTTAGGA CCTAAAGCTG TTATCTAAGA CCTCCTGATG
 303501 TTCTGGGTC TGGACTCTGT CTTTTTGGC TCTCCCTTGC TATATAAAGA
 303551 CAGAAACACA GCTGAGTGCA TGCATCTGCC TCCACCTGCC CCTGCTGTGC
 303601 AGGAAAAGTT GTCAGGAGCC CTTGGCAAG TGTCTGATGA GTGACTCATC
 303651 TGCATGAGGA ACAGGGGTGG CAGGAATGGG GCCCCCATCT GTGACTGGG
 303701 GTTCTGGGTG GAACAATCTC TGTCCCCAT TACACCACAG AGGGCTCAAT
 303751 TCTGAACCAG AACTGATGAT TGCTGGCCAG TGACCCCTGC ACCAGTTCC
 303801 TCTTCTCCA CACTTGGAAAG TTTCAAACCC AGACTGCCCT TTTCCCATCT
 303851 CAATCGTTA CTTCTAACAG CTGCATGGTG GGACCGGGCA CTTCTAGTC
 303901 ATTGTCTGGA GCTGAGTCTT CCAGCACTTT CCATTTTAA AGATCCCAGC
 303951 TGGAAAGTTGT CAATGGCCTC CGTGCAGAGC AATTGAATAG CAGAAAATGA
 304001 ACTAATTACA GGTGTTATT GAAAATCTAT TATATACAAA TTGCAAAGAA
 304051 AACTCATTA AATATGAAGC TTTGGTGATT TTTTAAACC CTCCTTGG
 304101 AGGGAGAGGC AGGAACGGGG TGGCTGGAA CCTTGTCCCTT CATTATTCT
 304151 GGGGTAAGAA CTCCCCCAGG AGCTGCAGAA CAGCCTCATG TTCATGTGTC
 304201 ACACAGCCA GCCTGACATC ATAAAGCTCG AAATTTCGCA TGCAAGGAG
 304251 AGCTCTCTGA ATGTAGTAA ATACTAAAAA ATGGCTGCAG AGGAAACAAA
 304301 GAATTCATT ACAAAGATAT AAAATGAGAA CAATTTAAAT GTCACTTTT
 304351 TACCAAGATA GCACCATATT GTCCTCATAA ATCTCCATGT TTTGCAAAG
 304401 CTTTTGTGAG GACTCAATG TGCAATTAAAG CACTGAAGGT CACATTCCCG
 304451 ATTTCTCAGC TTGCTCCCTG GGATTGGAGG TGTTGACGGG CTTAGGATGT
 304501 GAATGCCGTGAG GGTCTCCAGA GTCACATCT CAAGGGAAAT CTTGCATGG
 304551 CCGAGGCTAC CTCCCAGGT CCAGGCAGGA GCCCAGAAAC CAAACTGAGG
 304601 GTAACAGGGAA GTGCCCTCAA GCCCACTGCC TCCTTGGCCT GCCAGCACTG
 304651 CCCTTGTCTC AGCGTGAGTG TGGGTGGTGT GAGCTCTGAG GTACCTAGTG
 304701 ATAACCAGGT GTACTGAGGT GTAGAGAAGA CCCACCTTGG CATGCTCTG
 304751 AAAGGTAAC CTTGCCGTGAG GTTGTACCAAG CCTAGGAAGG ATCCTTAGGG
 304801 CACAATCACC AGTTCTCTAG CTTGTTGCTC TTTCCTCCT CTCTGGTCAC
 304851 CTGTTCTCAG GCTCCATGAC AGTGCCTGAG AGAACCCAC CACCAACT
 304901 ACAAGGCCCA GCTTGTGGGC TGCACGGGA CAAGCTGTGT CCTGGGTTA
 304951 GGGAGTGGTG GGGATGTAAG AGGAACCTCCA CTCACACGGG ACATAGTGAC
 305001 TGACTGGGTG AAGAGCTGTG GGCCACACTC AGGGCCAGGG CACTCAGAAG
 305051 CCTTGGCACC AAAGTGGCCC CTGATAGGAG CTGGCTGGAG AGCCAGACCC
 305101 TGGGGACAGA CAGTCCCTGG CTAGGCAGAG AGAGGCATTG GACACCTGAG
 305151 CTACTACTGC CTGCCGTGAG CAGCAGATGAG GGAGTGGAGCT GGAAACCCCC
 305201 AGAAGATAAG CCAGTGCCTC ATCTGAGATT TTCTCAGCAT CAGCAATACT
 305251 GATCCCTGCT TATCGTGGCC CTTCTCTGAGC AGCTCTTAGG CCCCCAAAGGC
 305301 TAAGGAGCAC CTCTCTCTAGC CCAGAGGCCA GCCATTCCCC ACACCCCTCAC
 305351 TCTGGGTGAG GGACCAAGGC AGGCTGAGAG CAGGAGAGTC GCCAGGTGGT
 305401 TGAAATATAG TCAGAGGCCA CAGGACTAAAT GAGTGTATGC AAAGACGGCA
 305451 GCAGGGCTAT ACAGTAACAA ACGCAGGGAGG CACAAAAGGA CAAAGGGAAA
 305501 GTAGGGGTGA CCTCGAAGAG CTGGCAGGGT GGTTATGGCC CAAGGCTCTT

TCAGGCTAAA TGCAGATGTC TGCCCTGTAG ACAGTGTAC GACTAATTGT

305551 GTTCCAGCGG GAGGACAAGA CCAGCAGAGC AGGGAAAGAGG AGCCTAGCAC
305601 TTTCCATGTG GTGGGCATTC AGCCTGGCAC AGAGTAGGTG CTTGACAAAC
305651 ATTTGTCAACC AGGATTAAG ACCATGGTGG ACTTTTAAA AGTTGTAGTA
305701 AAGAGAAAAT GTTCAGAGCT GTTGTGGCAG TTCCCAGAGA GAATGAAGAA
305751 CAGACCTGAG GGTTCCCCCTT GATGGTGGAA TCATCCTGTT GCCCACGTGT
305801 GGCATGCGCC GGGTGAGCAG CTCACCATGG TTCCACACAG TGGTCTGTGA
305851 GCTGATGGCT GAGGGGCAGA GAGGGGACAT GGAACCTGCA GTCACCCCTC
305901 GGTTTGGCAC CATGCTCCCG TTTACTCACT GCTGTCTGG TGGGACTCCT
305951 GTTTCCCCCA AAGCTGGCCT TCCACGGGAC AGTGCCAAGC CACCCCTAGCA
306001 CCCTTTATAA CAGAGCATCT GTCTTACCA AATGCCTCCC AGAGGCTCCC
306051 TGGATACCAT AAGGAGGCC GAGGTAAGAG GTAGAGTGGG ATTAAAATGT
306101 GCCCCTGCACT AAAGTGTGG TACCCAAGTC TTATCTGATT TCCCTTTTC
306151 GAAGACCTGT GAAGTCAGAG GATGGCAGAG GCTGTGGAAG TTGATCTTC
306201 TGGGTATTTA TTTGTGTTCT TGATAAGCAG GAAGAGAAAG GTCATCACAA
306251 GTGCAGCCCTG GAAATAAACC AATGGGAGAT CTTCCTCGT GATGGAGGAG
306301 CAGATGTTCT GAGTCTATGT AGAAGGGGGC ACACGTAACG GCCATATGTT
306351 CAGAGCCCCG AGTTCTCATT TAGCTCACAC AGGATTGGT GGGGTTCTGG
306401 AGGTCCCAGG TTTTGCCCTT TACATATGAA GGCTGATAGC ATCTTGGAC
306451 CCTTGGGATC CTGATTTGA CTGGGACAAG CGAACGCTCG TAATAGTTT
306501 GTGGAACATAT AGGCTGGACT CAGCACAGGT ACAAGCAGAA GAGTTTGT
306551 CTCCCTGCT CAGACTTCCC GGTGAATCCA AATCTTCCCC TGGCTGTGGG
306601 CTGAGGAGGG TGATGAGCTG AGGACCGCTC AGCAGTTGG TCGCCAACAC
306651 GAGGTGGCTT TCTGTCACTA TTTAGCTTGG GGGTACTTGG TAATGGCTTT
306701 CCATTTGGG CTTCCACTAG ATTCCAACA CTGCAGCAAC AGTCCCCTC
306751 CGTGCCCCAC TCCCCATCTA GATCTTCTCA GGGAAAGGTGC AAGGAGGCCT
306801 CTGTGCGAGC CGCCTGGGGC AGCCTGCAAG CTATGCCCTT GGAGAGCCGT
306851 TCTTCTCCAG ATGGCATGGG CAATTTTCTG TCAGACGGTG CTTCAAGGAG
306901 AACAACTGTT TATATACTTG TTGGGACTGC AAAACGCATC CAGGTGGGGT
306951 GGGAAATGGGC CCCAAAGGAC TCTCTCCCCC TCCACAGGTG GTGCGATGGG
307001 CAGTGTATGG AGCAGGCACCTT CCAAGCCCCAC CCCACATTCT CCATCTGGGT
307051 GGCGTCTCTG GGCTTACTCA TCTTCCCTAT CCCCTTCAGA CAGACCTCC
307101 ACTAGCGAGT TGCTGATGAC TCTCCAGAGC CTGTTGCTTC CCAGCAAACA
307151 CTGCAGGCTG CGTGCCTCACC ACGTGCCAGA TGCCATGAGA GGCATCTGGC
307201 AGGCAGAACCC TCTCCTGACC TCCGAGTTCC AAAAATAAGG AAACCAAGGC
307251 CCAAAGAGGT TGGGGCTGCA GAGCCCAACT CACAGCGAGG TGTGGCAGTT
307301 CTAGACCTGC GCACCTTGGC AGGATGCTGG CTGCACTTCT GCTCCAGCCA
307351 CGACTCTTG GAGTCTTTGT GTCTTCCCCC ATGATGTGTG ACTCTGGGGT
307401 GGGCAGAGGG TGGGCTCAGT GAGACAGACC CTCTCTGGG A GTGTTTCACC
307451 TGTGCTGCGG CAGATGGCAG GGCCCTGAA GTGGCATTCT TTCTGAGTCC
307501 TGAAGTCCTG GTGCCACAGG TGTTTCAGA CACATTTCAC CTGGGTCCCT
307551 TTCAGATGAC AGTGTGAAAG GAGCAGGATT ACTGTCTGC AGAACCATAG
307601 CAGTTGACGC CTCCAAACCTC CTGACAAAGC TCAGGGCTTC CGGCTCCACA
307651 GAGAAAGCGG GGCGCGAGCA GCAGACCTGT TATTAGAAC AGGTGTCCCG
307701 TGGAGGGCTG CTTCTCTCA AACCCAAAC CCATCAAATA TCCACTCCTT
307751 CTCAGCTCCC ACAAAATAAT GCACCTCCAG AGACTCCTCT TCTGAGGCCAC
307801 TTCCAGCCCT GGTGGTGGTC CTGACCCCTCA ATAGTCTACC TCTGTGCCAT
307851 GGTGCTTGGG AATGTGCTGA TGCTTGGCAG CAGGTTCAAC ATCAGGGAAA
307901 CGATGGCTTG GAAACAGAAAG TCACATCCCT GCCTTTCATG GGTGTTGAA
307951 ACACCCATCC CTCGGTAAAT TGCTGACACC TTGGTGAAGG CTGACAGCCT
308001 TCGGAGGAGC TCGCAGGAAG CCCCAGGCTG AATAACTGTCC AGGCCAACTG
308051 TACCAGGCCA CAGCTGGGA GCCCACTGCT CCATGCTCAG GGCACAGTAG
308101 GGGATTTAAG GGCAGTGGAG TCGACTCCTG GTTGGCTCAG ACAGAACAAA
308151 CAGGGTTGGG TGGGGAACGG GGCCTAAAAG TACTACAGGT TAAATAACTC
308201 AGCATCTAGA AAGCTCTAGA ACAAAAGCTAG CCCAGGGCCC TGCCACCCCT
308251 GACACCTGGG GGTGCTGAGT GAAAGAGCAG ACTTGGTAAC AAGCAGACTG
308301 TGTCCCTGTG GGAGATGTGG CCACCATGTC TCCTTCTCA TGTCCCTAG
308351 TGCAGAGGGA GCAGAGTAGG TGCAAGGTAC AGCTGGATCC GGCCATCCTG
308401 CATCCCAGGGC CTCCACCAAC ACCCTTGAGG CTTGAGGGCT TAGGGCACTT
308451 ACAGAATGCC TGTCCCTGTGA ATGGTGGCCA AGCGATGGAC AGAGCTTCCT
308501 GGTAAAGCTA AGGGCTCTG AGTTTGGGAA AACACAGAAA ATATGGAATG
308551 TTCCGTGGCA GAAGGGCCAG CTGTGAGGAA GGTGGGGCTT TGGAAAAGGA
308601 GCAATAGTGG CCACACCTTA AAGGCAGCCC TGGAGGCAAC CCAGTGTGTC
308651 TCAGGCTAAA TGCAGATGTC TGCCCTGTAG ACAGTGTAC GACTAATTGT

308701 ATTCCATGCA GTTCAAAGTT CTGCTCATT TTCCCTGGTC TCACCCCTCC
 308751 CAGCCCCCA ATCACAGAGC ACCTATCTCC CCTGCCTTC AACTAAAGAT
 308801 GTGCACACAC CTTCCCAGAC ACAAGGAGGA CGCGGTGATGG GGCAGCCTT
 308851 CAGGGAGCTC TGGCTCTGC TGGTTGGAGA AGCAGTTGGT AGCTGCTTCT
 308901 AATTGGAAAG GAATGCCAGT GGGCTTCCCC TCTGGATGCT TCCCTCGAAT
 308951 TCTCTAAATT AACAAATAAAG GCCTGGCTG AGCAGGGCCC CCAGACCCAG
 309001 AGTCAGCTCT CCATCATTCA GAGGCTGACT GTCCACTTG GAAAATTCT
 309051 GCCAGACTCT CCACAGCCTC CCTGCCTCCC ACCTGCCAGC CGCCGCCTGG
 309101 TTAGAATTG AAGGCAGCCC ATGTGAAGGG GAAGCAGAGA CAGCACAGGG
 309151 TGGGGAAAC TCAAAGCAAC TGGATGTGCT GCTGGTTAAG GGCTCTGGGA
 309201 AGTAGTGGTT TTTGAGAGGA GGGAGGAAC CAGCATTAAA TGGACATAAG
 309251 GAGAGAGACT GGGGACATCT GGCCATGTAG GCCCTTCTG AGCCTTCACA
 309301 CTCATGTGTG CACCTCCCTT TGAAGTCAGG AGAGGTAATT GATCTTGCAG
 309351 GACTCAGCCC AAGCTATGA TCCCTGCCCT TGAGACCACA GGCCCCAGCC
 309401 CCTCTGTAAG CAGGCCCTGGC CAGGCCAGCTG AGCAGATGAA ATATTCCCAG
 309451 GCCCCAGAGT GAGCAGTGTG ACTTTAAAAA GTCTGTGTTA GACTAGACTG
 309501 ACTGCACCCA ACCTGTTCTT TTTGAAAACA GTGTCCTCAGA AGGCTCAGGC
 309551 CCTTACAACG TCTGTAAACCT CAAATGTCTA CCAAGATGCC CAGGCTGCAG
 309601 GGAGTAGGCC TCATCCCAGG GGAGAAGTGC GGTCTTACA ATGGCACAAC
 309651 CACAAAGGCT CTGGCCGGGG CCTCAGTCTC ACCAAAGGGG CTTGGCTC
 309701 TGGTCTCCAG CCCGGTTCC TGATCCTCAG ATGAAGATGT TCTGATGCCA
 309751 TGGGCACCTC CAGGGAGAA GTGCCTGGCAA GTGGCTGTCC CTCAGTTCTC
 309801 TGCAGAGGGC AGTAAGCTTC CAGAGCGAAC TGAGACACCC CCGCAGGTGC
 309851 CACATGAATC AGCACCATGG CTGAGTTTC TGCTCTCAGA TGTGACAGAC
 309901 ATGGTCTTG AAGTCACAAA GCCAACAGGT TAGGAAGCTT TTGGGCTTCA
 309951 GCTCTGAGTA GGCAGGAGTT TAAGGAAACG CCCCCAATTG AAGCAACACA
 310001 ACAGGTGAAT ATTTGCTCTT ATGTATCCAT TCATGCCTAC CATCTGCC
 310051 AGGCAAGTTC TGGACTGAGC CCTGGGGAAA GAATGGTGAT GTGACAAGCC
 310101 TGGCCCTGTC ATCCGTCTG CAAGTTGATT ACTAAGAAC TAGTCCAGGG
 310151 CCCACAGTGG GGAAGCCCAC CCACGATGGA GTGTTGGCTG GATGGGCAGA
 310201 CACTTGCCC GCACCTGGTG TACAGGTATC ACACACCTAA GGAGCAGAGC
 310251 ATTGCAGGGC TCACCATGTG TTGAGAGCT TGCTCTGAA GCCACATAAT
 310301 TAATTCAGG TAATCATACA GCATCATAG TTGATGCTAA GCTGTTCTAA
 310351 GTGAATTCTAT TAATCCTTGC ACACTCTA GAGAGAGGAA CTATCGTTAT
 310401 CCCCTTTTA TAGATGAGGC CCAGGGCAAC CATGCTAGAG TAACTGCC
 310451 ACCTCTCAGC TAGAGAGTTA CAGGGCAGGG TTTGAACCCA GGAGTTCA
 310501 TTCCAAGCCT GTGTTCTTAC CTACTAAGCT ATGCTGCCCT TCAAGTCATT
 310551 CTAGACAATC TTGGTCACCA GCGTCTGTTT CGGGAGACCC CTTGTGTGCC
 310601 TCAAACCTGG CAGGTACCAAG TGGCTAGGGAA TAGAGGACTG CTGGTCC
 310651 TGAGGGATGG GGGACTGTTG GTCCCGACGC TGCGCACCC ACCTGGC
 310701 CTGTCACACA AGGGCCAGCC CATCAGAAAC ACCCTGGCTT CTAGAATCTG
 310751 TGCTACCCAG CAGAGTCCAG GAGGGACTAC AGTGAGGCCT CAGGTGT
 310801 AAATCCAATT TGGCAAGCAC TTCTTGAGAC TTCATATGCC CACTCTAGAT
 310851 TTCTGTGAGA GCTGGGGCCA GTCAGGTGCA CAGGATTCTC ATGAAGGAGG
 310901 CAGGGAGCAG GAGGCTGTGG CTGGTGGCTG TGCTGTGACA TTTGTT
 310951 CTAATAACAT TGACTGAGTG TTAAGCAGCT TAACATTATC TCATTTAGTG
 311001 ACATTCAATC CTTATGAAAAA GATACCACGT GTCTCATTTT AGAGGTGAAG
 311051 AGCCGGAGAC ACAGAGAGAT TAAGTCATTG CCTGGGTTA CCCAGTAGAC
 311101 CAAAAATTC AACCCATGCA TGATGGCTCC AGCACTCCAT CAGCACATCT
 311151 GATGAGGCCA CCTGCCACCC ACAGAGTCCC CCGAGCCTTG GCTTGAGGAC
 311201 AGGTGGGAGC ACCCTCTCT GCCCCTGGAA CCTTGGGGCT CACACATTCC
 311251 ATCTTTGTGC CTGATTTAAT CATGAAAACC AAGTGTCTC TTCTTATTCA
 311301 GGAGGTTGAT TCTTCCTCTG TCTGGCAGGG ATGTTGTAAT AACCAATTAA
 311351 TACGCATTTG CAAAATGCTT TGAGATCCTG CACGTAGGAT ACCATTTGTG
 311401 CAAAATCAGT TTTTTGGTA ACACATATTG ACATGAAAAA TTGTCTT
 311451 TTCTCCTGTA GAGAGCTTTT TTTCAAAATG CCTTCCATCA AAGGGTGCAA
 311501 TTATGAACCTC TGGAAAGACTT CCTGATACCA TCAAGGTAGG CAGGTACTCC
 311551 CTGCCCATGT GACCTTAGAG GTGCCCTCTC AGAACCTACA CCTGAGGCTG
 311601 CAGTGTGCC ACCAGCCCCA GCCCCCAAGG CAGGCCGTCA GGTGAAAAGT
 311651 GCTTAGCCCT GGAGGCAGTG TGCGGTCA CACACAAATA CTTCTGGCA
 311701 GGAGCTGTT TAGGCTGCAG AAATTCAACA GGTTCAACA CAGACAAAAAA
 311751 CTCTTGCCCT CACGGAACCT GTATTGCAGG GAGGAGACAC AGATAAAACAA
 311801 CAATGGATGC GTAGATTACA ACGTGGGTAG TACTTTTGAG AACAGCAACA

FIGURE 3, page 99 of 188

F G E B C D E F G H

311851 CAGAGGGCAG GGTAGGGCAG GGCAGGGCAG GGGTGGCAA AATTAAATAC
311901 GATAGCCCAG GGAAAGCCTC ATCCAGAGGG GCTATGTGAG CCAGGTGTTG
311951 AAGGGTCAG GGCACTCGCC ACGCAGTCAC TGGGGGAAGA TGTGTCCTAG
312001 CCCCCTAGGT AAAAATAGGT CTGATGGTAG GAGTGGTAG GGAAGCTGGG
312051 GGCAGGGTCA AAGGTCTGG GGGCCCTGG AAGCTAACCT AAGCACTTTT
312101 GTTTCACAA TGGGTGAAAC TAGATTATTG GAGGGCTTCA AGTCGAGAAG
312151 GGATGTGATC TGACTTTATA TTTTAAAGGA AGCACTTTGG CTGCTGTTTT
312201 GAGAAAAGAC TGTTACAGGG CAAAAGTAGG AGCATGTAGA CAAGTTAGGA
312251 GGCTGTTGCA ATAATTCTAGC TAATGGGCAC GATGGTGGTG AGGAGAGGCT
312301 GGATCATGGG TATATTCTGA AGGGCGGTGC CAAAGAGATT TGCTGATGAG
312351 TTGCATGTGG TTATTAGAAA AGAAAGGAGT CCAGGATAAC TCCAGGGTTT
312401 TGGGCATGAG GACTGGAAGG ATGGAGTTGC CATTAACTGA GACAGAGGAG
312451 ACCATGGGTG GAGGAGGTTT GGGAGGGAAG ATCAGGAGTT AATTGGGGG
312501 CATACTGAGT TTGAGATGCT ATCAGACATT CAAGTGGCAG TGTGAAACAG
312551 GCAGTTGGAT AGACGAGGAG AGGGCTAGGC TGAAGATGGA AACTTGGAAA
312601 CCCCTAGCAT ACTGACAGCA TTTAAAGCTC TGAGTTGGAT GAGATCACTG
312651 AGTAGGTGAA TGTGGATAGA GAAGAGAAGC CAAGACAGAG CCCTAAGAGC
312701 CTCTGATGGG AAGAGGTCAG GAAGAGGAGT GGGAGCCCCA AAAGAGAATG
312751 AGAGGAAGAT GCCAGAGTGG TGGGAGGAAA CCCAGGCAAG TGCATGTCC
312801 TAGGAGCCAA GAGAAGAGTG AGTCAGGAAG CGGTCAGCTG TCCCAAGTGC
312851 TGAAAGCTCA GTTAAGATGA GGACAAAGAA AAGAGACTTG TATTAGTCAT
312901 TTGGAGGTCT TC GGCTTGAA AGGCAGTTTC CACGCAGTGG GATGGGAGAG
312951 GGTACAAAAG TCTCATTGGA TTGGGTTAA GATGGAGTGG GAAGAAAGGA
313001 ACTGGAGAAA CTAATGAAG ATAAATCTTC TGAGGAGTTT TGCAGCAAAG
313051 AACAGAAATAG GGCAGTAGCT AAAAGGATAG CAGGGCCAAG AAGGCTTTG
313101 CAAACACACG TGAGCAACCG GCATGTCTGT GGATGAGCAG AGTCAAGTAG
313151 AAAGGGAAA CTGAGGCTGT GGAAGGAAGA GGCAGTACAA CCAGATGACT
313201 TCTTTGAGTA GGCAGGGGA GGTGGAATCC AGGGCCAGG TTGGGGATTG
313251 TCTTAGATGG ATGGCGGCA GACCCAGTTA ACAGGGAAAGA AGCTTGAGAG
313301 TGTGAACCGA CAGAGATGGG TGGGTCGGTG TGGTGGGTGC GTGTGCAGAC
313351 GTCTGTTTC TCAGTGAATC AGGAAGCAAG GTCATGGCTG AGCGTGAGGA
313401 TAAGGGAAAGA GATGTGGAAG TCTGAGGAGG GAGAAGAAGG TCGGGAACGA
313451 TTGTGTAGGA GAGTGAAGA GGGACAGATG CAGAGGAGGC GGAGTGTACT
313501 TTGGGCAGCT TTCGGGACCC ACTTGAGGGC CCTAGTCCTG AATCCAAAGT
313551 GAGACTAGTC AGCAGGGTGG CGTTTCCCC AGCATGTTCA GCTACCCGGG
313601 TATAAGCAGA CAGCACCCAG ACAGATTCA CCAGGGCTGG AGGGTTGTCA
313651 AGAGAGGGTA AGGGAATTGA GTGTGTGCAA CAGTATCATT CCAGTGATTT
313701 AAATTCCATG GAATCCATG GTAAGGAGGA AGCAACATCA CCACAGGTGA
313751 CAGGCATACA GTTGGTCAGT AGATTCCCGG TGGGCTGAA GAATTCTTGG
313801 AGTCTGGATA CCAGACAGAA TAAACCAGAA GAGATGGGAG GTGATCAGAG
313851 AGTAGGATGC CTGTAGATAT GAGTTTTCAG GCTGCTATAA TTTGTAATGA
313901 CAGTGTCTGG ACTCAGGAT ATGCCACCT GTAAGGTGGA GAGTTGGCAG
313951 GTAATCAACT TGGATGTTA AATCACCTGG CACTTACACA GGTGGCATAT
314001 AAGGGAGACT GCTGTTAGCC ATAGGCTACA ACACAGGAAA TGGGGTGGGG
314051 CATAACCCAG AGTCAGCAGG TGACTGCAGC AAAGAGGGGC GGTGGGTGGC
314101 ACGTGGAGCA TGACAGGGGG TTTCCCTTTC TCCCTGAGAG CAGGTTCTCT
314151 GAGGCAGGGT CTCTTTTAT GCCCCATTAA CAGAAGAGGA ACGGAGGCAT
314201 CAAAAAGTTG CACGTGGTGG TAGAGATGAA ACTCAAATCA GGGGATGTCC
314251 TCCAAAATTA ACACCTGGA CACCAACACAG AGTACCTTCC AACACAGACA
314301 GGTTGACCAT GAGTAAGATT TGGTCCCTGG CCCCAGGGAG TCCACTCTTC
314351 TATGGGAAAA CAAGACGTGT GCAAAACAA GGCAAAAGGC TGTGGACGG
314401 TTGCCAAAAG AACGCCATGG AAAC TGAGAG GAGGGTGTAA CACAGCTAAG
314451 CAAAATAATG CTATTAGTCT TCACAAAGGA GGGCACGATG GGATTTCACA
314501 GGCAGGTATG GGAGTGGAA AAGGCATCCC AGTCAGAGGC AACAGCCTAA
314551 GCGTAAGAAC AGATGGGAAAG GCTCCAGACC ATCTAATATG GCCAACCTCGT
314601 CCCGTGCCAT GGACAAATAA AAGAGAAGAA ATGATGCCAGG AGGGAGGGAT
314651 TAGAACGATA ACAGCAAGGG CGTGTGTTAG GGAGCTAAAT GCAATCACAC
314701 ACAACCCCCA AATCTCAGGG GCTTAGTGCAT ATATTIATTA GTGCAAAGAT
314751 TTGTTCTCCA TTCCTGTAAC AGCTCAAGGG TGGTGTTCAG TTTCTGTGCA
314801 CACAGTGACA TGGGGACTCG GACACCTTC GGTGTTGGTT CTTCCGTCTC
314851 CTGGGGCCTC AGATCCCTT ACTGGATGCT GCATCTGGCC GGTATACAGT
314901 AGGATGGAGA GAGTAGAGAG GCTTGCAGGA GCTGTTTGG AGCCAGCAA
314951 AGCCCTTGCA CCCATCCCTC CTGACACATT CCACTGGCCA GAACTCAGTC

315001 ATATGGATGC CTCAACTACA GGAAGAGCTG GGAAATGTAG TCCAGCTGTG
315051 TCCACAGGAG GGAATGGATG CAGGTTGAGG TGAACACAGA GCATTCTCG
315101 CCAAAGACAT GCAGGCCACA GAGTTTGGGC ATGTCAGGAA AGCCAGGGAA
315151 GCATGGAGGG TGTGGTCAAA GTCAGTTGA GGAGGACCGA CCTGTAGACA
315201 CCCACAGGGA AGAGTGAGGA CTAGGAAACT CCAGAGACTG TAGAAGACCT
315251 GAACACAGAT GCAAAAGTGG GAACAGAAAAA GGGCACAAAAA AGAAAGATGA
315301 TTCTGGGAGG CTCTTGTGGC CTTGCGTGG GGTGGCGGTT GGGAGAGAAG
315351 GAGCTGAACA GTGAAGACCA TTCCGAGAGT TCGCCACAGG GCCAAGATGG
315401 CGCCTGCCT CTCCCTCTTA GCTCTGGGG TGCCGGAAGG CAGGGTCAGG
315451 CCCTGTGGAG ATGGAGTGGC GGGAGGTGGC TGTGACGGTC CTCCGCAGTC
315501 CATAGCCTGG CCCCACAGAG GGGAGAAGAA AGGATCTCTT TTAATTTCT
315551 TCTCAGGCCT CCACCTGACG AAGGAGAAAT ATCACCCAAC ATTGTTATCT
315601 CTCAGAAAAT ACTCTCTGGA ATCATAAAAA GGGAAATACA GTGAAGCTAG
315651 ACCACGAAGG CTGCCCTTA ATCAGGAGC TTCTAAATTA TCACAGTGGC
315701 GCTCTCTAAT TCCTCGGAAT GAAAACATTA AAGATGACAA TGTCCTTTA
315751 AATCAAATGC CCTGGGAGTT GCTGTAAAGA GTCAGTGGGC TTTTTTTTT
315801 CCCTGTGAG GATTTTTTTT TTGTCCTCTT TTCACCTTAT AATAAAATAT
315851 AAATCATAAC TTGTCGGGGC AGGCTCTACA GAGCAAGCTG TGAACATGGA
315901 TTTTCTGAAA ATGAAGGTTT TTTTAATGG GAATCATCTC ATCTCAGGAA
315951 GCATGAGAGT CTCAAATGAT GAGTTTGCTA CTTCACACTT TCTTTTTTT
316001 TTTTTGATT CACAGGTGGG CCTCAGGCCT AGCTGTGGCA CCACGTGTGAT
316051 GAATCATGAT GGCACACCCCC AGGAGGCCAG TGGGCTGACT CAACCCCTCC
316101 TGGAGCGGCC ACTGTGCTCA AGCTGTGCGA GGTAGGGCA GGGAGGCACA
316151 GCCTTGGGAG GTAGCATGTA GAGGCAGGAG GACTGGGGCC TGGAGGAAAG
316201 GGCATGGTTC ACACCCCTTG GCCCCTTCCA GGCAGGCCCTG GTGGTCTGAG
316251 CTCTTGTGCC ACAAAGAGAA CCCAGAGGCT AGTGCAGCCC CAGGAGGAAG
316301 GGTTGGGAGC CACGGGTCAG AGAAGGCTGC ATGGCAAGGT GGACTTGT
316351 TCTGCATTCT GGTGTGAAA AGGGGTCAAGA GATGGAGAAA GAACTGGCGA
316401 GTTGACCCAG GCTCGGGAAAG TACCAGGGCA GCACGACCCCC AAGGGTCTGC
316451 CCTTGGTCTG CCACCTCCCCT CTCTCTGCGA TCCTCCATCT GCCAGTGCC
316501 ATCTCCATGG GCTGGGTGGA GACTCAAGGC CTGGCAGGGC CAAGTCTGGG
316551 AAGCTGCTGG ACAGTTGTA CCAAGGTAGG AAAGCAGTCT CTGATATT
316601 AGAAAAGTGT TCAAGGCTTA GGTCTGAAAT CGCAGGGCTT GCTGATTAAA
316651 ACATGTACCC TATGGCCAC AGCCCTCTCC CCTCCCACTG AACTAGCCAA
316701 GCATCTTCAG AAAGGCTGGC TCTTCTCATC AACTCCATGG CCTTCATCCT
316751 GACCCCTGGC TTCCCTCTGT GTCCTGTCAC CACCCCTCCCC ACCTCCCC
316801 CACCTGTACA GGAACGTGAGG CTCGAACAG GTCACCTTGT CCCTGCGGTT
316851 GGCTTAGGCA GAGAACACTC CTATCTTAT CCAGTCTGAC CTCTCTGCAG
316901 ATCAGGCCCT CGGGACCTCT CCTCTCTGCA GACGCTCATT TGCTCTCC
316951 CTTTTGGCC ACCTGTTCTC CATCTTATTG GAAAGTGGAC TCCTTCCCC
317001 TGCCAGCCCC TTACACTTTC TTGGTAGAGA GCCAGGATGT AGGCATCTTA
317051 GGCCTTGAA GCCATACAGT GTCTACCACA GCCACTGAAC TCTGACATTG
317101 CAACGTGAGG CAGCTGTAGA TAAAATGTAA ACAAAATGAAT GTGTCTGTGT
317151 TCCAGTAAA CCTGATTTC AAAACAGAT GGAGGGCCTG TCTGAGACAC
317201 TCAGGTGCGC TGCTCCCTC ATTACTCTC GCCCTGGGGA GGGTCTTGT
317251 CCACCCACGC CTCCAGACAT GAGGTTTCCA GCACCAAGTC TTCAAGAGTC
317301 CCTAAGGTCC AAGGGGCAAGAGGTCCAA GGGTCATTAC TTAGAGGCAC
317351 CACACACTTA GTGTGACTCA ACGGCCCCGCTT CTTCCCCCAA ACTCCCC
317401 CCTCCTGTGT CTCCGTCTC ACCAACATAC TTTCCCCCTT CCCATTGTAC
317451 TTCTTTGTAT ATCGGATTGT TAAGTGTTC CAAGTGGGCG GTGAGTCTT
317501 TGAGAGCTGC ACGTGACCTT GAGCGCAGGG TCAGGAGAT GGTGGGGAGT
317551 CGGAGACGGA GGCTCTAGGG AGACTGAGGG GCTGGGAGAT GCGGCACAAG
317601 AGTGGGAAGC CCAGCACTGC GGACTCACTG GGCTCGATCT CCTCCCTGAC
317651 GGGCTGGCCA GCATTCAAGT GTATTGTAT TTCAGTGGGG TCCCCACAGGG
317701 GGTCTATGG AAAAGAAGCA GCCCACATTG CAGGCCAGGG ACCGGCGGGCC
317751 AAAGGCAGGT GGCTGGAGC CATGGGCCCC TGTCTGCCGG CCTGTCCATC
317801 CCCAAGTGTG CTGAGGTAC TGAGCTGAGG GCAGTGTGTTA GAGCCATCCA
317851 AGAGGGCTCC AGGGGGGGGG ACTGTGTTGG AGGCCACATG CCACCCCTCTG
317901 CTGTGGTCC TGCTTACCT CATCCTAGGA GACCACACAG CCTAGGCATA
317951 ATGCCTAGAG CTAAAATTCA GGGGCTTCAG ATAGCCATGT CATAATCCAC
318001 AGACCCAGTG GAAAGTACAA CTCCCTGGGG CCCCAGTCGC CCGTGTGGGA
318051 CCCCTCCCCA AGGCTGCTGG CCTGCTGGGA AGCAGGGATG CCAGATGAAG
318101 AGGGAAGACC CAGGCTGGAA GCTTGCCTT ATCTCCATGC CACAGAGGCT

FIGURE 3, page 101 of 188

318151 CAAGGACTCC CCGATGGCCC TCACAGGAGC TCTGCCCCA GCTCCATT
318201 CCTCATTGCG CCAGTGCTGG CGGCAGAGGG CATCAGCAGA GGTGCAGGCA
318251 TTGCGAGTGC CCTCTGATGC AGCTCCAAAC ATTCTGTTCA CTTAGAGCAG
318301 CAAACAGTCT CACCTGTCTC CTGCTCATCA TGGGTACATA AAATTCCCTG
318351 TTGTTTATTC ACTCTCCTCC TCACAGTCCT GGATGGCAAG ACACAGTAAT
318401 TAATCATCAG GCTGTTTTG CGAGGGGCCA CACCCTGCTG GTGCTGCACC
318451 TGGGCAGCTG CCTAACAGAT TGGCTGCCGA AGGTTTGTT TGAGGCTGAA
318501 TTCTTGATCT TGGCCACTCT CTCGGGGATG GAGAGCCATC AGCACCCACT
318551 TTGCACGCG GCCTCACTCC CGGCACACTC TCAGAAAGGC CCTGGAATT
318601 ATTTTGCCTA TTTGAATACA AATGCAATTG AGACAAGATT CTTTTGTTT
318651 CAGAAGTCAT TGCTTCATTT CTGTTTCTCG TCAAGTGAAC TGACAGCCAA
318701 AGAGAGTTGA AATAAACAAAC TCTGTGCCTG GCTGAGCCAG ATGAAATAAG
318751 TCCCCCACC CATCACTGAG ACATGGTACC ATCAGGTTGT GTTACCAAGTT
318801 AAGGGCTTGG TGCTGGTCTT TGGGCAGCTC TGGAGGCAGA ATGTCAGGCT
318851 TTGGGCTACA TCTGTGCCAG GACAGGCTGC AGGACTAGTC CCAGAGTTGG
318901 GCAAGCTGGA AGACAGGTGC CTACACAG AGGACACCTG CCCCTCTGCC
318951 CTGTGTCTTA GAGGCCCTT CCTCTGACAT GGATCCTGGG GAAGGGAGAC
319001 ACATGCAGTC ATTCAATTCAAG GAAGGGGAGA AAGTGGCAGC CAAGGCCCCA
319051 CTCTCAGGGAG CTCCTGACCC ATCTAGGGAA GTGGGGCTCC CAGGCAAGAA
319101 GGAGGTATGT AAATATCAAG TGTTAAACCA CAGGGTTGGG ATGATAGGTG
319151 CTGTGGAACC ATCTGGGCTT CCTGGAAGAA GATGGGCTTA GGCTGGATCT
319201 TGAAGAATGA AGGTGGGATA TATTTGGACA GATAGAGAAG GAAAGGGCTC
319251 TACTTCAAGG CAAGAGAAAG GCTCAGAAGA AGGATTAGGA GTGGGGATT
319301 AAGAAATATAA TTCCCTTCAGT ATTAAGTACC TGCTAAAGGT GGGCAGATCA
319351 ATAGCGGGGC AGTTGGGTT GTGACCTCAT TTTCAGCTCT GCCCTGCTTT
319401 GCCCTGAGGC TCCAGACCTC GCAGCCCCCA AGGTTCCCAC TGTATCCCA
319451 GTTCCAAGG GCAGCTGGGA TCTGACCTTG CTCCCTGAGAA ATGCTGCATG
319501 AAAGAGGGGC ATACACTCTG TGGAGCTCCC TTGCCCCAAGG GCCTCCTCCA
319551 GGCCAGGCTG TGCCCTTGAG CCCAGGCTGC AGAGACGGGA GGATGGCACA
319601 GCACCACCTC TAGGGTATGG AGAGCAGCCT CTGACAGACC CTCACCTCAG
319651 TCTTTGTAGA AAGAGAGCAG ACAGTTTCC TGTAAACCGAG GAATAATTCT
319701 CAAGGTGGAC ATGCGACCCA GAAAAATGGA GTGATGCTTA GTCCCCAGAT
319751 GCCCCCTCCA GCGCTGTCCA GCTGTCTGAG CAGGGCTGC CACTCGGATA
319801 GGTCACTCAA GCGAGGCCAG AGCCCTTTTC ACAGGCACCT TGGGGCTTG
319851 GGTCTACCTT CACTTCCAG GACACAAAGG CTCTCCCTAG GCAGGCTCTG
319901 TCCCAGCATC CAGGGCCAAG GGGCTCAGGC AGAGGCTCTT TAAAAGCTTG
319951 GTGCTTCATC TTGATGAGTT TCTTGCTGGG GGCTCTGAGC ATTGTGACTG
320001 TGACAGGTTT TGAGCCCCCTC GTGGCTGGGC AGGGTCTGTG TTTGGTCTTG
320051 TGGGTACTGA ATATGAAGCT GTTTCCAGAT GAACAGCAAC ATCGCTCCAA
320101 ACAGTTCAAT TCAGTGAGCG GGCCAGGAGT GGGGCCTGGG CAGACCCAGA
320151 CAGGCCTGGG AGGGGCAGGC AGCAGCCTCT CCCTGGCTGT GCTGCTGAGG
320201 GTGCCTGGG CTCCCTGTCC CACCATGGGG GACCCCCGGG ACAGAGGGGC
320251 CTCTACTACA GGGCCCTGC AGCCTGCTC CAAAACCTC ATCTAAGGCC
320301 TGCAGAGTCC GCAAAGCCCC ACCCTCAGAA AGGTTAAGTC ACTCACTCCC
320351 AGGGCTACCT AGTTAGTAAG AGGTGGGCT GGAATACTCA AAATACATTA
320401 ATCATTCTTT AAAATAATAA TTGTTCTTTA CTGAGGCATT ACTTTGTGCC
320451 AGGCACTACG TTAATCATT TATATTATAT GTAGTTCACT CCTCAAACAG
320501 GTACTATTAG TAACCCAGT TTACAGATGA GATGACTGAG GTTGGGCAAT
320551 AGCACAGCTG GGATTAATC CAGGCAAGTC CAAGTCAAA ACAAACAGCC
320601 TTTCTCTGCT TTCCCTGAGGC AGGAGATTGG GGATAAGGCA TGAGGGAGAG
320651 ATGCAGAGTG CTTGTGATGT GGCAGTCATG GAAGGCAGGC TCCCTGGAGG
320701 AGGTGGTGTG TGGCATTTGA ATGGCATCCTA GAAGGATGTG TGTGATTGGA
320751 GTAAAGGGCA GGAAGAACAG TGGGAGCAA GAAAGACACT GAGGCTGGAG
320801 GACACAGAAAT ACATCAAGA AACGGCACTG TTGTCATCCT AGAGCAGAGT
320851 GCGGGCAGCA GGGGGCAGTG GGGACCACAG TGTCAGGTCA GTCAGACTAT
320901 AGAGGCCTGG AATGAGAGGC CAAGAACAGC CATCCAAAGC TCTGGCAGG
320951 GGAGAACAGGAG ATCCAGGGCT GAGCTGGTT GGATGCCTAT GCCTGCATCT
321001 TAGGAAATGA AATGACCCAA CTGCGGCCTC CATCATAGGC CAGCACCCAG
321051 GTAGCATCCC GAGCCACTGC TGATTTAAGA GATGTCATG CAGCTGTCT
321101 TCACAGACTC CCAGCAATAG TGTTCACCTC CTCGGTAGAA TAGTCACCTA
321151 CAAAGCATTT TTTTTTTTT TTTTGAGATG GAGTCTCGCT CTGTCACCCA
321201 GGCTGGAGTG CAGTGGTGCCTG ATCTCAGCTC ACTGCAAGCC CCACCTCTG
321251 GGTTCATGCC ATTCTCCTGC CTCAGCCTCC CGAGTAGCTG GGACTACAGG

FIGURE 3, page 102 of 188

321301 CGCCCGCCAC CACACCTGGC TAATTTTTG TATTTTAGT AGAGACGGAG
 321351 TTTCACCATG TTAGCCAGGA TGGTCTCGAT CTCCTGACCT TGTGATCCAC
 321401 CGCCTCAAGC CTCCCAAAGT GCTGGAATT AAGGCAGTGAG CCACCGCGTC
 321451 CGGCCAACT ACAAAAGCTT AACACACTGA AAGCAGAGGA TTTCTGCCTG
 321501 AAAGCACTG GTATTTGGAC TTGTGAACAT AAAGATGGGA ATGCAACCAG
 321551 GCAATGCAGG GGCTGCCTAG AGTCAAGGGT TTGTTTTAA GTAAGAGAGA
 321601 CAGAACATGATA TTTACAATCA GTACTTCTCA AATTAGGTTT TCTTTTATG
 321651 GGATTGAAAA TTCTCCATTG AAGCCCCATG GAGAGATGTG GTCTGAGGGC
 321701 AGCATTGAGG CGATCAGTGT GTCTTAAAC TTCCAGACGC TCACAGACAC
 321751 TTAAAGTAAA AACAGAGAGA AACAAAATTG TTTCCAAAAA GCAGCAAAGA
 321801 AGGCTGATCT GCTTGTAGG ATCCTTGAG TCCACTGTGG GCCAGCTCAG
 321851 ATGCCACCTC CTCCAGGAAG CCCTCCCTAA GTCCCCCTGCC TGCACTCCTA
 321901 CCTTGCTTCA GATGCATAGT GGAGGGTCCC CAATGTGATG ATGTGGCCTC
 321951 CAGCTGGGGC AACATCCATG GGCTCCAGAG AGCCACAGGG GTCATGAGTT
 322001 GATTTTTAA GCCTTTGAA CCATAGCCTA TGGGTGAGAA GAAAGGTTT
 322051 TGTCAAGATT GAAGAGGCGA TTAACCTGTG CCGGGTGGAT GTACATCAA
 322101 AACGTGCTCC ACAGAAACAA GATCTCTCA GAAAAAGTTA GGTCTCATTG
 322151 CAAGTGTGTT TACATGCCCTG AATGTGGAGA TCTGGGTAGG GCCTCCAAAG
 322201 CTCTAAGGTC CGTTGTCCTC CTCTGTTAGT ACCTAGCAAG TGTAAACCGT
 322251 GTGCCTGATA CATGCTAAAT ACTTTTCACA TATTCACTCC TCACAAAG
 322301 TCTATGAGGC AGATTCTGAG TCCCATTAA AAGAAGAGGA AACTGAGGTC
 322351 CAGAGAGGTT AAGAAATTG CCCAAGGTTG CATACTCAGT AAATGGTGGA
 322401 GTTGGGATTA GAACCCAGGC TCCTAAGCAC TGCACACAT CACACCCAGG
 322451 GATGCTTAGA GGTCAAGCCTT GTGTCGTGAC CATGTACAC ACACACCTAG
 322501 GTTGCAGTG CCATGGACAC AGGGCAGGTC AGATTCTGCT GTGCTCAGGC
 322551 ACCCAGGACA GGGCTTGGCA CAGAGCTTAG TTATTGGTGC CCTGGCAGGT
 322601 GGGGCCACCG ATCCAGCTCC CTTCCTAGGA CTTCGTGCTC TGGCAAGTG
 322651 GTCAACCCCTG AGAGTGCTGA CAGCCCAGTG GACAGGTCTT GGCAAAGTCT
 322701 ATGCCTGGGC GTGGCCTAGC CTGCAGGCCCT ATCCTGAGGT TTATGGAAAG
 322751 TGAATCACCA AACCGGGCCA GGTGGTGCTG AGCTGGGTGC AGCTGGGGCA
 322801 GCGAAGGAGC CATTGGACCT CATACTCTGA GTGATCCTCA GAGACTGACT
 322851 CGCCAGGGAG TTTTGTGTGA CTGACTGACT CCACAGCTGG GAGCTTGTG
 322901 TGACTTCCTC ACAGAGGAAG ATCACGTGAG ATGAGTGAGG GAGGCTCCTT
 322951 GTGGTGGCAG GACATGCCCT TGGCCTTGGA GGAAACAGGG AAATCATTCC
 323001 TTTGAACTG TTAAGAGGAA AATGTGAGAA TTCAGATCCT ACTCCATGGC
 323051 AGTTCTGAGG GTAATATTTT AGGGCCAAGG GAATGGGCA CCTTCCTGC
 323101 CCAAGTCAGA GAGAACCTTT GGTACCAAGAG GCAGCCTTCA GGGAAAGGCT
 323151 AGGGTCCCGAG CCAGCTGGCA CCTGACTGAA CCTCACTTGA GCTGTATGTG
 323201 TTCCCCTCAT TCTGCCAGGA CACTGGTCAA AGCTGAAATA TTATTACTAT
 323251 TACAAGGTTT TAGCAGTGCC ACCTCCATCA AGATTCCAT TTGTCTTCTC
 323301 GCTTCTCTTC TCATGTTTA CAAATATTC TTGACTTCTC TCTCTTCTTT
 323351 CAAACAGTGC CCTGCCATT TATAATCAGA AGACAAATAA ACTTTGTGCA
 323401 AATCTCCCTG TTCCCTCATG AACTAGCCAG GCATAGAAGG GGCAACACCA
 323451 AGGGTGTGCC TATTGACTCA ATGCCATGTT TTGACCACTC TCAGGGCCCG
 323501 CCAGTGGGGC TTCCATAGCA TCACCTATCA TCTTGTGCC ACTTACTCCA
 323551 GAGCCTTCGC TGGCTCCCTA TTTCCCACCT CACCAAGTCT GAGCACCTCT
 323601 GCCTGCTCGT TAGGTCTCGT GCCCTAGCCA GTCCCTTCAC AGCACCCCTGA
 323651 CACCCCTACTC AGCCGTCTC TTCCCCTGGG TCTGTTACT CCCCTACCCCT
 323701 ACCCCCAGGAC TTCCCTCAAG CAAAAAGCTA ATATGTAAG GAAGGCAAGG
 323751 ACCATGTCA GATATCCTCA GCATCTGACA CCGAGCATCC TCTCCAACCT
 323801 GAGACAGTTT ATAATCATT CAAAGTAGAG AATGCCAAGA AGACTGGCCT
 323851 GTGGGGGTTT ATCCAAATCT TGGATGCCCT AATCTCTCC AGGAGGGTTG
 323901 CCCAAGGACT TAAGAAAAAG AGCGAGTGTC CAAGGCAGAG TCCAAGGAGT
 323951 GGTTCCAGAG CAGCACATGC CAGGGGCTGT GTCTGCACAG GTTGAAGTGGG
 324001 AAGAGGAAGA GGATAATGGC AAGGATGTAG AGGGAGGGAGA CTGCCCGGGC
 324051 AGGCACGTGCT CACATCAGCA GGGCGTCAGC AGCAAAACTA CTGCTGCCCT
 324101 CTGCCCACTC CTTCCTCTCC CTCCAGTCCC ACTTCTGCC TGAGGGGCAT
 324151 CTGTCTTAGG ATCAAGAAGA AATGTACAC TCCAACAATT GAAGGATAGT
 324201 GTTTTTAATG ACTTGACTCA CTCTAATTAG AGGAAGCAAC ACTTTGATTA
 324251 GCAGCAGTCT GACCTGGGAG CATGGACTTG TGAGAATTGC TCCTTATGAT
 324301 GTGCTTGGAG TTCCAAATTG GCAGATGGTC TCTCTGAGGT TGGGGCTGGA
 324351 TCAGCGTGTGAG AGAAGGGACA GTGCTGGCA GCCCCCTCCC ACATCTGTGG
 324401 AGATAAACATC TTGCCTTCTA CATGTGTCTC CTGGTCTTTG CCTGATATGG

FIGURE 3, page 103 of 188

324451 TTTGGGTTCCA TGTCCCCACC CAAATCTCAT GTTGAATTGT AATTCTCAAT
 324501 GCTGGGGGAG GGACCTGATG GGAGGTGATT GGATCATGGG ATCAAATTTC
 324551 CCCCTTGCCA CTCTCATGAT AGTGAGTTTC CACAAGATCT GATGTTTCA
 324601 AAGTGTGTAG CACTTCCGCC TTTGCTCTTT CTCTCCTGCT CTGCCATATT
 324651 AAGACATGCT TGCTTCCCCT CTGCCTTCTG CCATGATTGT AAGTTTCTG
 324701 AGGCCTCCCA GCCATGCTTC CTGTACAGCC TGAGGAACGT TGAATCAACT
 324751 AAATCTCTGT TCTTCATCAA TAACCCAGTC TCAGGTAGTT TTTTATAGCA
 324801 GTGTGAGAAC AGACCAATAT ATTGCCCTAC ACCCATGCAG TGCTGTGAGC
 324851 CAACAGGCCA CTGTCCAATT CCTCATAATG GTTTCTATGA GCCACTGCC
 324901 CTGGCAAATG CACCTTATGG CCAAACATCT CCAGGGCTG CTCTCAATT
 324951 TACCCCAAGC AGCACTAGAA TTTCCTTACC CCTGGGATC TGCTGCCCA
 325001 GGTCTGTATA GGAAGGAATG CCACCATGTG TCTGGCATTAA TTTGGGATGA
 325051 ACAAGAAGGT GAGAGAGAGA AGTGGAAAGC AGACTGTCCC CCTGGATCTG
 325101 GACCATGTAA TAGACTCCTC ACCAGCTGTG TCTCTGTAT TGCTTCTTT
 325151 GTCACTTGCC AATGGACACA TCTTTCCAAG ACAGGGCCA GGTCACTGTC
 325201 CACCATTGGA ACAAGGGCCA GCCCCACCAAG ATGGAGTCTC AAGGCACGGC
 325251 ATGGCCCCGT TAGAGCCTTG GAGAACACTG CCACACACAC ACACACAGAC
 325301 ACACACACAC ACACACACAC ACGCTAGGCT TAAAGGCCA GAGGACCCCA
 325351 GGAAGGCCAG CACACCTTTA GGATGCAAAC GGTCAGGAC ACCCAGTTTC
 325401 TCCACCACCA CTCTGAAAAA TCTCTGTAC CAATGAGCAG CTCTCAGAGG
 325451 TGAGCAGCAG GTTTCCCTTG TGCCTGGTGA GAAAACAATG GCATGTTTAC
 325501 TTTGGTGGGG TACATCTCTT CCAGCCCCAGG GCCCCAACCT TGTGCTAAC
 325551 GACATTCCAT GCCCCCTCTGC TCCCAAATCA TTTCTCAGAA CTTAACAAAGT
 325601 GTTAATGGCT ATCTCTTGG AAAGAGACAA GTGTCAGATG AGCATTGCAA
 325651 GACTGTAGTA TTTGTTAGA GAAAGTTGTC TTCTGGAA AGGGGTTCT
 325701 GCTCTTGTG GTAACAAGGT CAGTACAGAC CCTTTAGAG CGGTAGTTCA
 325751 GGGCCTCAGA CAACTAGGGC AAGGGTGACA AACCCCTGGT TCAATGGGGC
 325801 TGAGCCCAGG TGAGGGTTCA GGGCAGTTCC CATTGACCAG ATGGAGTCAG
 325851 CAGGCTTCAC TCACTGGTGA AGCAACTCAG GTCTCTGTT AGGGTACACC
 325901 AGAGCAGTCC CAGCCCCAG GGCACGAAGA GGGGATGGCT GTCAATTCCA
 325951 GAACGGAAAGA CCTCTGCTCC CACCCACAGG AGCCACTGCT GCACCTCCAG
 326001 CTCACCCCCA AGAAGAATCG TATGGGAGAA ATGATCCTGC TGCTAATGGG
 326051 ATTAAAATGC ATTTGAGTT TTCCAATTAC ATATTTCAT TATTCCGTGA
 326101 ATGTTAATTG GAACTCAACA ATGCAACTGT GAGCTGGCA GAAACAGAAA
 326151 CTGGTGGCTT CTCCCCAAA TGGCCACAGA TTTCTCACCC TGGAACATGC
 326201 AAGGATCTAC CAGGAAGACT CCTCTGGGGC CCCAGTGT CAGGAATTTC
 326251 TACCACTGCC TGAGCATGTG GTTGGTGTG CCTGGCCGTG TTCATGTGTG
 326301 CCCACAGAAG GGCACATACT GTTCTCTCTG CTTGGAAGCC CCTCCTCAGG
 326351 CCCTACCTTC CCATCTCTG GGCAAACCTCC TTTAAGACTC AGTTCAAGTG
 326401 TCCCTGCTC AGAGAGGCCT TAAGGACACC ACAGATGCC ACCAAGCAATT
 326451 TCCCATGTCT CTTCTCATCT GCCTCCCCCTG GACTCACTCA TCCGCCATT
 326501 CCAAGAGCTT ACATGGGGCT TGGCACATCA TGAGTGTCT ATGAATT
 326551 GCTTCGGGAA AAACATAGGT GCTCAGATTC CTGACCAAGTTT CCACCCACCT
 326601 GATAGGCCAG GCTCTGGCCT GGTCTCTAGT CTGACCAAGTT AGAACCTTGG
 326651 ATTTCAGACC CAGGTTTGTC AACAACCTCAT CTAGTGAAT TTCAGCCACC
 326701 ACACTCCCCA GAAGTCCTGA CCCAAACCCCCC ATGACCTGCT CCTTGAGAC
 326751 CCAACCCATG CCCTGGAAAA CCAAACATCT CAAACATCTA TATCCCCTCT
 326801 TCATGTCCTG GGGGGGGG CTGCCCTAGT CCAGAACAGG GGGCCTTGCC
 326851 AGTGCAGACC CTCAACTGGT AGCTCAGGAG AAAAGAAAAC CCTCCCTGG
 326901 CCACTCCCCCT TCCGTCTGCT TGTCCATCAC AGCCTCCAC TTTTATTCTC
 326951 TGGTTCCAGC TATTCAGGCC AAATCATAGA AGAGTCTGG CCCAGGACTG
 327001 CAGCAGCTT TAGGGAGCTC AGCTTGGGAA TCCTGCAGAG CTGGGCAGAT
 327051 TTACCTCTCT GAGTCTCAGT TTTCTCATCT GTACAATGGA AGTAATTGTA
 327101 CAGAAACATT GTTCTGAGGG TTCAAGGAGA AAATGTGTGT AAAGGGCTTA
 327151 GCAGAGTGCAG AGGCAGGGTG CTCAGGGAAAT GTCAGATTTT ATTACTGTTA
 327201 TTATCTGCCT CCTAAGTCCC ACCTATTTCAGA GAGATATTCTT CCTAGGAAA
 327251 GGGTTTCAGG CAACAGTCAG CAGGGACCTT CTGAGGTCTC TGGACTCAAG
 327301 ACCTTGAAGT GTCCCTCAAG GCCATTAATG CAGATCACAA ATACCAGGAGC
 327351 CAGGATTGAG GCTAAAGGAG AGAACCAAGCT GGCTCAGGGC TCCAAGGAGG
 327401 TTGGGCTGGT GGAAGGGCA GGACAAAAGC AACTCCAGGG GGTGTCCCAG
 327451 ACACAGGGAC CGGTGTGCAG GCTCACTGCT CACCCACCAA CTGTTTACCC
 327501 AGCACGTTCC ATGTGTGGGG CACTGGGCAG GCTGCTGGCA TTTAATGGTA
 327551 AGCAAAGCCA GATGTGGTTC CTGCCCTTGG AGAACTTACA GTTCTAGGG

FIGURE 3, page 104 of 188

327601 GAAAGATAGG AAAACAGCGG CAGTCTACTC TAGATAGGGT AGTTATGGGT
327651 AGGGCACCTG TCTGAGGGAT AATGTAAGG AAGAGACAGG GAGGTGAGAG
327701 GAACTAGCCA GATGTCCAGG AGACCTGGAG ACAGGGAGGC GCTTGCTGTA
327751 ATCAAGGGCT GGAGGCAGGC CAGCGTGGCT GGAATGTGGA GGGCCAGGGA
327801 AGCTGTAGGG GAGGCCATCA CAGAAGGAGG GTGGTCTTTA CTCTGTGTT
327851 AGTGGCTACC CTGTGGCTCT GAGTGGGCCT TGTTTTGGA GGATGTGTGT
327901 TCCCAGGCTC TTTGCTAACG CCTGGCAAAA CACCAGGAGC AAGACCAGGC
327951 AGCTGAGGGG AGCCTCCCAG TTGTGGTCAG TATCTGGAG ACCTGTTTG
328001 GGGCTGGGA CTTGGTGTG CCACATTTTG AGAGCAGTT TCAGAGCAGC
328051 TTGGGATGA CTTTATGCC TCATCTGCAC ACCCCTGGCC CAGTCCATGT
328101 CCCAAATGGC ATCAGTCTTG ACTGGGAATA ACTCAACTCA CAAATATT
328151 TGCCTGGCT CTGAGGTGGC GAGCTCTGT CTAACTGCAG AGGGTCTGAG
328201 TGGGCCAACT GAGCCTGCAA CCTGCCATT CAAGGTCTCT CCCCTCACCC
328251 CCTCCCCATA CCCACCTGCC ACTTGCCACC TAAATCTGT CCATGTAATG
328301 AGGCTGGGT TGGCAATGAA ATGATTGGCC AGGGGTCAAGA GCAGGTGGCC
328351 ACATTGAGGC CTAGAGGGTA CTAGAGGTG ATTGCTCCC TGAGTGCAAT
328401 AAGGACCTTC CATGGGTTCTAGGGCTGA TATGAGAGAT GATCACATGG
328451 TGGCTTTAAA CCACGTAACAC GTGTGCTCTC ACCACTCAGG AGACCAGAAG
328501 CCAGAAATCA AGGTGCTGGC AGGATCACAC TCCCTTCAAA GTCTCCAGGC
328551 CCTTGCCTCT TCCACTCTG GTGGCTCTG GTATTCTTG GCTGAGCA
328601 ATGTAACCTC AGTGTCTGCC TCCATCTCA CAGGGCTCC TTCTTGTCC
328651 CCCATGTCTT CTCCTCGTCT CATAAGGACA CCAGTAAGCG GATTCAGGCC
328701 CACAGTAAT CCAGGATGAT TTCATCTCAA GATCCTTAAG TAATTATATG
328751 TGCAAAGATC CTATTTCCA ATCAGGTAC ATTCTGAGGT TCTAATAGAC
328801 ATGAATTGG TGAGGGTTG GGGACACTAC TCAACCCACC ATAGGCCCCA
328851 AGGAGGATGC CCCTGCCACA TGACCCCTGCC TCATGCCCTG ACGTGGGTCT
328901 CATAGGCCTA CCAGCCCTGT GGCCCCCTCCA CCCCACCTGA CCACCTCGAT
328951 CCTGTGGCTT CCACCCCTCCC CGTGCTCACA TTCCCCCTGG ACCATCCTAG
329001 GAGATGTGT CACGTGGCCA ACCCAGACTC AGCCTGCATC TCCTTGCCAG
329051 GCTCCTGGGC CCCACCTGTT GGCAACAGTC TAAGGCAGCA TTCTAAACA
329101 TTTTGGCAC CAGGGACTGG TTTCTGGAA GACCGTTTT CCACAGACTG
329151 GGAGTGGGGG AGCAGAACAG AGATGGTTTC GGACAAAAGT GTTCAGCCTC
329201 AGATCATCAG GCATTAGATT CTCATAAGGA GCACATTACC TAAATCCCC
329251 ACATGCACAG TTCGCTATAG GGTTTGTGCT CTTTGAGAA TCTAACGCTG
329301 CTGCTGATCT GACAGGAGGC AGAACTCAGT GCCCAGCGCT CACCTCTGC
329351 TGTGCAGCCC GGCTCTAAC AGGCCATGGA CCATCCACGG CCTAGAGATT
329401 GGGAAACCCCT GGTCTAGGGC ACTAGGAGTA CAGAGAACAC ACAGTCAGTT
329451 CTAAAGAACT TCTCTATAGA AACTGACATT CTTTGACAG AACCCCCAGC
329501 TTCACAGCAG CATTGAGTT GCAACCACAC AGTATAAGCC TGCTGGCCAG
329551 GGCTGGCAAG TTGCTGGGC CTCCCAGTGC AGGGCGGGCA AAACACATGT
329601 GCAGCTACAT CTTCAGCTAC TCAGGCCAG GAAGGCTGTT ACTACCCCTGT
329651 ATACCTGAGG CTACCTTGCC ATCTGGGCTT TAGTTGATTC GTCTGTGGGA
329701 GGAGCAGGGG ATCAGATTGT CTTGAAGGGC TCATGCCCTGC CTAATATCTT
329751 GGTCTGGAGC AAGAAATGCC CTCGCATAGC TGTGAGGAAG CGGTGGCGT
329801 TTTCTAGATG GCAGTGGCCT GCAGACCTAT TGGAAACCTC TCTAGGGAGG
329851 AACATGTCCC TCTGAGCTCA GCTCCTAGGG TCCAGTGCTC CACTGAGGTC
329901 TTCCCTGCAC CTCTCATGTG CGCCAAGAGG TTTCTGATG CCACCTCACC
329951 TGGTATGGC TTCTGGGACA GGCAAGAGAC CAGGCTGAG CTCCCTTAGA
330001 CTGTGTTGCA GGGAAAAAGT CATCACTAAG ACACACCCAA CTCCGTAGAG
330051 AACAGGAAGC ATACGCTGGT ATCAGGCCCTG ACAGAACGTG GGAAAGAAAG
330101 TTCCAGCACA GACAGAGGCC TGCTGGGAGC TGGGACTCCT GAAAATGGAA
330151 GGGCTCTCCA TGTGGCTGGA GGACAAGTAG GATTTGGAA CACAAGCCAA
330201 GACTGCAGCC GAGGTGTGGC AGAGGGCTG GGGAGCTGAG AGAGTTACAC
330251 AGGGCTTCAC AAGACCCCT TGCTCCAAAC AGACATGCCA CATGGAACCC
330301 CAGAGCTCTA GGGAGACAGG CCTCTGGACA GGATGCCCTAG CCCTCCTATA
330351 GACTGGCGT TCTTGCAGCC AGTCATGGGA CCTCTCTGCT TCTGAATGTC
330401 ACTGTGTCAG CCCAGCAGCC CTTTGTACAG GCCATGAGAC CAGTCACCTC
330451 TGATGTGCTG GGGGTGATCC TGGGGCACC CATGCAAATC TTTTAAGGTT
330501 CCTGGGGTTA GTTTTCCCAC CTGTGAATT GGCTCACCC CCTGCTATTG
330551 TGGTGAGGGC CGCATGTTCC AGGCCACGGG ACTGAGCTCA GAAGAGCACA
330601 CGGCTCTGGT CACAAGAATG GGCAGAGGGT GATGAAATCC CTTGTCGCGT
330651 GGCCTCTTTG CTATGAGGCC CCCACCTACT CGGGACTGGC TGGTCTTTAT
330701 CTTTGCTTC ACATCAGCAC CAAGTGTCCC TGGCATGAAC CCCAAAAAAC

330751 AGTTCAGAAG AGGGCTTCCT CCTACATCAT GCCGGTGGGG GAAGAAAGCC
 330801 CAGGGCCCCA GGATCCCCA GAGTCAGCCC CACTCGTGAG GCTGCTTTAT
 330851 CCAGAGCATC AGGGGCCACC CCAAGGGCA AGTCAGGTCT AGGAGGGCCC
 330901 CAGCCTTCCT GCAGGCTCCT CCCAGGACTT GCCCAGGGC AGAGAGAAGG
 330951 AAGCTGATGG GGAATAGCAA TACATTCTTT CCTCTGTAAA GATTCTATTT
 331001 GCTGTTTAGC CCTATGTTT CTATGATAAT ATTTCAGTTA TTTTTTAGAT
 331051 AGTAAGTGA GTGCAGCATA CATAGAAAAG TGACAGCTC AATGAAGCAG
 331101 ACAAGAGCAT GCTGTGCAAC CACTGTCCCC ATAAGAAATA CAGTGCCGCC
 331151 AGCACCTAG ACGCCCTCCT TCCTGCCTGC ACCCAATCCC CATACCCGTC
 331201 CTCCTACCTG ACACAATTAT CATCCCACTT TTCTTTCTT TTTTTTTT
 331251 GAGACCGAGT CTTGCTCTGT TGCCCAGTCT GGAGTGAAT GGACAAATCT
 331301 CGGCTCACTG CAGCCTCTGC CTCTCAGGTT CAAGCAATTC TGCTAAGCC
 331351 TCCCAAGTAG CTGGGATTAC AGGGGCACAC CGCCACACCC AGCTAATTAA
 331401 TTTTTTCATT TTTAGTAGAG ACAGGGTTTC ACCATGTTGG CCAGGCTGAT
 331451 TTCAAACCTCC CGACCTCAGG TGATCCACCC GCCTTGCCCT CCCAAAGTGC
 331501 TGGAATTACA GGAGTGAGCC ACCGCGGCCCA GCCTATTACC CTGCTTTCT
 331551 AATATCACAG AGTAATTGG CCTATGTTTG AACTTGTAT CAACGGACTC
 331601 ATACAGAATG ATCTCTGTGT GCCTGGCTGC TTGCTTCAAA CTATGTCTGT
 331651 GAGATTGCGC TATTGTCACT TCATTTATAG CAGGAGTTTG TTCTTTTCA
 331701 TTGATGATAA TATTCTGTTG TAAGAATATG CCACCTGGGT TGATGTACCA
 331751 GCTGTTTCC AGTTGGAA ATTATAAAAT AATGGTCCTA TGAATGTTCT
 331801 TGTGCAAGCC TTTGGTATGC ATCTCTGTCA GAAATCTATC TCTTCGCATC
 331851 AAATTGCTGG TGGAGAATAT GCACAGAGTA ACAAGATATT GATGCCCTGGT
 331901 TTTAACATG CTCCTGTTAT AAGAGTAGAC ACTTAACCAT GGTGGGGAGT
 331951 GGGGAGGGAT GGCCTTGGC CCCAAGGTAC CCATTCAAGGG CCAGCTTGGG
 332001 ACACAGTCTT GAGGGGTCTAT TATTATTTCC CCCACCATGG CCTTGAGACC
 332051 CTGGGTGTTCT ACAGGGGCC CTCCCTGCCT TTGGGTCAAGG GACACTTTTC
 332101 AAGAATTGCA CATAAGGCTA AGGGCTCCCT GGGCCAAGAC AAAGGAATGT
 332151 AGGGCAGCAG CCAGGAGGGGA GGCCAGGGGG GGACAGACCT TCCGGGGCCC
 332201 TGCCATCCCC AGCCTGTAGA CAGCCACCTG CTCAGAGGAG CCACCTACGC
 332251 GTGCCCTCCCC TCTCCACTGG GGTCCAGCAT CACAGGGCCC AAGCAAGCCA
 332301 GGACAGCCCT GCTGGCAGCC AGCTGAAGAC AGGGTTGTGA GCACCCCTCTA
 332351 TGGCTCCAC CCTGGGGGAC AAGAGATGTA TTCCCTCCT TAAGGAAGGTT
 332401 GCAGACCCCA CTTAGAGGGG AAACATTGTT ATTGCTCTCT GTTGAATTG
 332451 GTTATATTAA GTATAATGTT ACTTAAATAT GTACAAACAT AAAACCAGGT
 332501 ACACGTTCTT TATGCAGGGGA GCTCTCTCAC AGCCATAAAG CTAAAACAAA
 332551 TTTATAAAATG AAATAAAAGC AAACGTCAA ACCAATAAAC TTCAAATTAA
 332601 CAACATTAAT TTAATGGGAC AAAGTGTAT TGTTTCTG AAACATAATC
 332651 AGCGCTCACG GCTGACTCTG GGGCAGGCTG CTGTTGTTCT CCAGGGTTTT
 332701 CTGCTACCTT GCCGTGTGCT GCATGATGAC TCAGCTCTCC CACCGCTTCT
 332751 TTCTCCATTC AGACCACTTC GAAACCTTCA TTCCACAGT CTCCTTAGCT
 332801 CTTTAAGCCT TGCTTGCTC ATCTGTAAAAA TGGAGAGGGT ATTCTGTATGT
 332851 ATTTGTATC GAGAATTAAA CCAGTTGATG CAATGCAGCC TTCTGGCTTG
 332901 AGACATGTGT AGTCACACAG GGGTCCACAC TCAGAAAGGGG CCATGCTTG
 332951 CTTTAATGCT CTGCTGTGCA CATCTTGAAA TTCTTTTTTT TTTTTTTTT
 333001 TAAGACAGAG TTTTCTCTT GTGCCAGG CTAGAGTGCA GTGGCACGAT
 333051 CTCGGCACCC TGGAACACC ACCTTCCGG TTCAAGCGAT TCTCTGCCT
 333101 CAGCCTCCCA AGTAGATGGG ACTACAGGCA CCCGCCACCA CGCCTGGCTA
 333151 ATTTCTGTAT TTTTAATACA GACAGGGTTT CACCATGTTA GTCAAGCTGG
 333201 TCTCGAACTC CTGACCTCAG ATGATCTGCC TGTCTGGCC TCCCAAAGTG
 333251 CTGGGATTAT AGGCATGAGC CACTGTGCCT GGCCACATT TGAACTTCAT
 333301 AACAGAGTTT CCCTCCGTCA CCGAGGCTGG AGTACAGTGG TGCAATCTCA
 333351 GCTCATIGCA ACCTCCACTT CATGGGTTCA AGTGAATTCTC CTGCTCTCAGC
 333401 CTCCCGAATA GCTGTGATTA CAAGCGTGCACCCACCAAGCC CAGCTAACTT
 333451 TTTTGTATTT TTAGTAGAGA CAGGGTTCA CCATGTTGGC CAGGCTGGTC
 333501 TCAAACCTCCT AACCTCAAGT GATCCACCCG CCTCGGCCCT CCAAAGTGCT
 333551 GGGATTACAG ACATGAGCCA CTGTGCCAG CCTAAATTCT TATAATTTTT
 333601 TAAACAAAGG GAACTGCATT TTTATATTAC ACAAGGCCCT GTAAATTATG
 333651 TAGCAGGTCC TATGCATAGG ACAAAAGTCAG GTATACAGTT GGCAACCCAAAT
 333701 AACTGTTAGC AGCTATTACT GGTACCTTGT CCTGGTTACT AAGTACAGAT
 333751 TCTTTGTGAT GTTTCCCTCT GATGACAGTT TTATCTCCC ATTATTTAAT
 333801 AGGGGTGGAG AGGCCACCTC ATGTGTGTAA TTGTATTGTA CTAATTCTTG
 333851 GAGTTGAGTG TGTGCTTTGG AGCGAGGACT GCTGTGTTGA CGGAAGGATT

Wattie et al. / *Genome* 2013, Volume 36, Number 10

333901 AGCTTTCTGG GTCACGTGGG CGGTCTGAGC ACACCACCCC ACCAAAGCCC
333951 TCTCACTCGG GACCAGCCCC TAGGCTTCAG ACCTGTGTCT CTTAGGCTGA
334001 CATTCCAATG GGGTCAGGCA GAATACTGCT GTCTTCTTGA AACCTCTTAA
334051 ATAGGTGCC AGAGTTAACG TAAGTTAACG GGTTATGAAG TTGAAGACAC
334101 TTGAATGGAT GAGAAGCTCA GACAGAGTTG CTAATTAAAT TTTCCCTTTT
334151 TATTGCTGTT CTCCTAAAAA AAAAAAAA AAAAGCTAG
334201 ATTGCCCTT TTCTGAGAAT GAGATATTAA TAAGCACAGC ATTTGCAAA
334251 AGTAGAGAAG GGCATTAAGA TTTTGCAAGG TCTCTCTATT TGTCCTCAC
334301 TTCTCAAGGC TCTTCTGCTG GCCCAAATAG GACACAGGCT GAGGGGATTA
334351 ACTGCTTAAAG TTTCAGGAAA TGGGAACAC CTTGGCTGCT GTCACCCAGAC
334401 TCAAGTATTA AATAACATCC CTGCCTGCC AGAGGACATC TCTGCAAGCA
334451 ACTCCATCAG CCCAGCCAC CGCCCTGGCC ATGTTGAGAG TTTGCCAAAG
334501 AAAAATGAAC ACTTGGGCCT CAAAGTGCAG GCATTAATAT CCTAAGTGT
334551 TCATCATGGA AGACTTTGTT CCCCAGGAG AGTAAATCTT TCCTTGTGGG
334601 ATGCAGCAGG CTAAGGACCA AGCTGACTCT CTGAGCTCAG TAATCAGGCT
334651 AGTCTCTGC TGGAGGCACA GAAGGGAACT CCGCTGTGTG TCAGCACCTC
334701 CTGCATGCC TGACTCATGC TTGGGGGAAG GACGGTGGAG TGAGAGGCAG
334751 ATATGGACCC TCCCCTGGCA GAGCTCCCTG TTATCCCTGG AGTGGGTTAC
334801 TCCCTCCGCC GCCTGCAAAC GTAGGTTTCC CTTCAGCTAC GCAAAGGCCT
334851 GTGAACACAG ATACGTGGTC ACAAGCATCT TTGAGCTGT TTCTTCCAC
334901 CAGCCTGGGG CCTGCTGGGT TCCGTAAACG TCAGGGTAAG TCAAGCCTCA
334951 GAGGTATCA GTAGCCAGTA TCCACTGTT TGCACCCCTT GGGAGAAGCT
335001 CGAAGAACAG GGCTGCCAAC TTCTTCAGTA AGATCCCCA GGTAAACCTG
335051 ACCCCAAAGTA GCTCCCTCCT CCATTAAGAG GAGCCACAGG CCCAGGTAAG
335101 CCACAGCCAC AGGCCACACA GGGCCCCAGG CTGGAGGACT CTAGAGCTAA
335151 GTCTCCAACA TGGCTATGTT ACAAGTCTTA GGTATGTGTG GCTGCTGAGC
335201 ACCTGAAATT AGGCTAGTCC AAATTGAGAT GTAAGTATAA AATACACATT
335251 AGATTTAAAG GCCTCTGTG GAAAAAGAAG GTAAATATCT CATTAACTAA
335301 TTTTTACATT GATTTTATGT TAAAGAGTA GTTTAGATAT TATTAATTAA
335351 CTATCAGCTG TTTCTTCTTT TTACTTGGCT ACAAGAAATG TAAATCAGAT
335401 ATGTGGCTTG CATTGCCATA CCATTGGACA GCACTCCCT GGAGAGAAC
335451 GAGGAATAT CACAAGAGTC AACCAGGAAG GTCAGAACTG TGACAAGGGA
335501 CTAACCTCTC CCTATGCCA GCGCTGGCCC CCAGCACATG CAACTCTGGC
335551 CCTTGATGGC CCAATCCGTC CTGCTCTGC AGGGGATGGC AAACCCCTGGC
335601 AAGAACCTCC CAGAAGGGGA ACTGAAGGGC TGTTCATGA CAAATATTAT
335651 CAGCATCAGA AAGTCAAAATC GGGTTTCAGG GGCCACCTGA GAATTACAAG
335701 TCCTAACAGA TGGCCCAAGT TTTCATCTT TCTTCTGAGT TTTAGTACAA
335751 AATCCAGAGA AACAGTTATA GATCTGTGC CACATCAATG CCTACAAACAA
335801 TTCACCACTC GCGATGCTGC CTTTAGTGCT AATGCAGCGC ACTCATTAC
335851 AGACTAATAA AATCGGAAGA GTTATTATTTC TTAAATATG CAGACATATC
335901 TGGGTATCC ACTTAATGAC GCATATGGAA TAAATTACTT TTGGATGACA
335951 CTTTTTAATT GAACTGAAC AACAGCTTAG TAATATGTG CAATAAGAAG
336001 AATATTAGGA TGATTTAAAG ATCTAAAAAC TCTTGGCAAAT TAAATGATT
336051 AAACATAATG CTGAGTAAAGA GAAACAAGCCC GTGTATATTA ATCAGTTGTG
336101 GGCCTCCAGA AGCCGTCGTG TAACTAAATG CACGTACGG CGCTGCACGC
336151 GCGTGCCTCC TCTCTCCCTC CACGCCGGCT TTCCATCATG CCTCCTTAC
336201 CACCACGCTG GGCAAACATGC TTTTTCCACA GACAAACAAT GCGTTAAGAA
336251 TGCAGTGAGT GTAAAGTGTAA CAAGAGCTAT TGCTTCTTGG CAAACACTCA
336301 TTCCCTTGGT TGTGGCTTC AAGAAATGGC CGTGTCTTA ATTTTCAGTC
336351 CCTGTTTTA ACTGAAATGA AACTTTAAGG TGCAAAATTT AATAGAATT
336401 TGGCTTCCCTT TCTGATTGTA GGAATTGACA TTCTGGTAC ATTCCCTTG
336451 TTGGGATGTC FCCTGTTTCC CATTAAAGCCA CTCACCTCAC TGTGTTTAA
336501 TTTCCCTGGA ACTGTTGCGT ACCATGAGTC GCTCTTAGGA AGCTGGGGGT
336551 GAGAAAGTCA TGTGGGAGA AAGTGTGAT TCCAAAGCCC CCCGGTCAAA
336601 GCTGGCTGCT CCTCAGGGGT GAGGAGGAAA AGCAGCTCTG TTGAGGTCCC
336651 AGGAGGGCAT CCCCTGCATC CCTCCCTCCC TCTGCCACTG GCCATGCCAC
336701 CCAGCACCGT GCAGGTGCCT TTTGTATGAC CTAGAAAATC GATTAACCTC
336751 CTTATGCAGT TCATCCCCCG CCTGCTCAGA GATAACCCAG GTAATTCTT
336801 TTCTGATTGT ATAATCTTT CATAACCAAG TCACAGTCAT AATTAGTTAC
336851 ATAAAAATTC AGGTTACGAC TTAGGCTGTT ATTAGGAACA TGAACACAG
336901 TGAAAAGTTT TGTCTCACTC ACTCTCTAAT AAAAATCTC AAGGTCTCTG
336951 TTACTGAGAA CAGAAGGGAC TTGGTATCTC ATTAAGGCTA AAATTCAATT
337001 CAGAACAGAA TCTCACTAGC TGGGCTTGAT GCTGGGGCGG TGGGGGGCAG

337051 GAAAGGCTAG CCACTCCTGG CAAGAAGTTT AAAGCAGGTC TGTGCTCTCC
 337101 ACACCCCTGTA TGTGTCGTGG CCTTCCCTCG GCTGGGCTGA GAATCTGTGC
 337151 TTCCAAAACC AATGCCACAA GAAGCCCAGC AGAGGCATCT TCTCAAATGA
 337201 AAATATATTTC CCCAAACCAA AGTGCTGATC AAACCCATCT TGAGCACAT
 337251 CACACTGGAA AATAACACAG TGGAATTCCA TTAAGCCGAT GGCTCCTAAA
 337301 GAACAAGTCA GCTTCTGAA AAGTCCCAGA TAAAGCACTA CAATTGTCTC
 337351 AATGGCTAA TGTAATCACC TACCAGGGC ACTAGATTCA TCTTCCCCAA
 337401 TTGGGCAAAT TAAGAGCCAT CGAAAGGAAT CACATTCCCA CAGTTACCCA
 337451 GGAGACTGAG AGGGCCCTTC AAGACGGGCA AGCAGAGCCT CTTCCGTG
 337501 CAGCCACTTC CCTCCATCTG GCCCAACTCA GGCTGGAAG CAGAGCTCAG
 337551 GAAGTAGCTC TAATGAACT CCAACTACA ATGGAACCTC AGAGAGCCAA
 337601 GTGTTTGAGT TCCAAGGATG GAGGTAAGG TTTTCAAAGG CTTCCAGTCC
 337651 TGAAGACTGA GGCCATTGTG AGTTTAAACTCGTCCCTT TCCAGATGGC
 337701 ACAGCGGATT ATGACTATGC AACCTAGAC CCAGCAATTG GAGTAGTTCT
 337751 GGGCTTTGGA TAATGTTGGG GTTATCATAC AAGCTATGGG GCAGGAGGAC
 337801 ATAGAGTAGG GGTGACCTGC CTTTACAAA ATCCCGATCC CCGCATTGTC
 337851 ATCTGAAATG CAAGAGTCAG ACCCTCACCCT CAGCAGATCT CATCCTCAC
 337901 TTTCTTGAG GGCAGAAATG CTGAAAACAT TCATTTGTCA AAACCTTGAA
 337951 AGCCACAGGA CTGAGCCAAC AAGGAGAGAA GCAATCAGGA CTTTGTCATC
 338001 AGAGGAGGCG GACTGCCCCC ACGTCTATC AAATTTAGTC CGGAATGTAT
 338051 TTTGCCATTA TTGTAACATG GCCCTTCAGC TGCCACGCCG TTTCAGGAAC
 338101 GGAGCGCTAA TACATTCTGT GGCACAGTCT CTTTATGGG AGGAAAGGAT
 338151 CCCAGTGCC CTTGACAGAG AGAGAATAAT AGCATAATGC AACAGAACAT
 338201 TTTTGAATG CTAATACACG CTCTCCGCAA CTTAATTAA TTTTTTCTT
 338251 ATTGGCTTT TTATATGACA TTTCACAGTC CTGTAGCCTC AATAGCTAGA
 338301 TCTGCATCGT AAAAATGACA ACACGGTGTAT TTAAGGAGGA GAGTCATCA
 338351 GAGCGAAATG GGTGGTGTGC TTTAAAGTA TCAGTTAGTC ACCTCTTACC
 338401 TGGGATCAAT GTTCATTCTC AATACATCAT TAAAGCATCC TGTTAAATCA
 338451 CTTGGAGAGT GGTGGTGTGC TTCTTATGCA GCCCCAGGTT TGATTATGGA
 338501 GATAATGAAG TGGAACCTG CAGGAAGGGC CATGTTAGGC ACACGTACTT
 338551 TATTGAGTTA GGGGCTACCA GGGAAAGGTTG ATCTGAATTA AAGAAACTTG
 338601 AGAGGAAAGG AGAGAGAGAG AAGCAGAGCA GGTGCGTGGG CATGGAGGCT
 338651 TCCATCGGAA CTGGATAGGC AGCAACAGAT GCCGTCAAAT TTGAGACCTC
 338701 CTCTCTAACG TTTACAAGCA CAGTGTTCAC CAAACCCATA TTCATAAGGG
 338751 TCCGAGCTGC AGTGAAGTCT GCAGTCAGCA TGTAAGATGA GAGAGACACA
 338801 CTGATGGGAC TGGTAGAACT TTCCAGACCC CAACCAAAGT GAGCTCAAAG
 338851 GCAAAACAGGA TTAACAGGTC CAGCACCCCT TACATGGAGC AGACAAAGGA
 338901 CCAGACAAAG GACCACCTCT AGTGAGGGCT TGGGCCAGAG CATIGGGCTG
 338951 ATTGAAAAAC TCCAGAACCC AAGTGAGCAT GAGTTCTAA GAACATATCC
 339001 TTCAAGTCCA GCTGCCGTGA TGTGGCCATC GTTAGACCCCT GAGACACCGA
 339051 TGTTCCCTCGG TTTCTCTTCC TTCTTCTGG AATATATTAA GTTCAAAGTA
 339101 ATACATGCTA ATTGTACACT ACTGCACATA AGAAGTTGAA AGATAAACCC
 339151 TCCCAAATCC CACTGCTCTC TTATCCCCG TCTCACGCCT CATGGATAAA
 339201 TTCCACTGGC AATTGCTTG GACCCACACA GGCTTCTCT CTCAGCATGTA
 339251 CAAACACCC ACAGGTATTT TTGTGACCTG GGATCAGACT CCACACATTG
 339301 TTTTGCAACT TGCTTTCTC ATTTAAAACC ATTTCAAGGTC AGTACAATAA
 339351 GATTTGCCTG GCTCTCTT TTTTTTTTG AGATGGAGTC
 339401 TCGCTCCATC GCCCCAGGCTG GAGTGGTGC GTGCCACGAT CTCAGCTCAC
 339451 TGCAAGCTCC GCCTCCGGG TTCAAGCCAT TCTCCTACCT CAGCCTCCCG
 339501 AGTAGCTGGG ACTACAGGCG CCCGCCACCA TGCCCGCTA ATTNTTTTGT
 339551 ATTNTTAGTA GAGATGGGT TTCACCGTGT TAGCCAGGAT GGTCTCGATC
 339601 TCCTGACCTG GTGATCTACC CACCTCGGCC TCCCCAAAATA CTGGGATTAC
 339651 AGGCACGAGC CACCGCGCCC AGCCTGCCIG GCTCTTCAA ATTCTATTG
 339701 AAACCAAAAC ATAATAACCA ATCCCCCTGAT GATGGATATT CAGGTTGTT
 339751 TTAGTTTTC ACTAGATAAT ACTGCAATTG GCGTCGGTGG TCACAGATAT
 339801 CTTTGACAT CTGTGCAAGT ATACCATCGG ATACCTTCAC TAGAGGCTTC
 339851 CTGACAACTC TTCCAAAAGT GACTGGCTCT TGTCTCCATG TTTTATGGTT
 339901 TCCAAAGTTA GGAAAAAAA TGAAACAGCT CACTCCCTCC TCCCTGTCTC
 339951 AGGATGAGCA GGAAGGCAGG TGAGGTTGC ACTTGGACCA TGCTCCTGCA
 340001 GAAGCCGGGC TACCAAGACA AATGAGCCGG GCCTCCACCA CCTCCCATTT
 340051 GACCTGCAA GTCCCTCAGAA CTCCCCAGGA CTCCCTCAGTC ACCCAGGAAC
 340101 TCAAATGTGC ATTAGCCAG CCTTTCAAAC AACACCCATG TAGGGGGTAA
 340151 GTGACTTGTC TCACTCAAAG TAGGGGACAG CACACAGGCC AGGGAGGAAT

340201 TGGAGCCCTG GGAGTCAGCA TAGAATTCTC CATCATGTGG TGTGGGAAGG
 340251 CACAGACCAA AGTTGACCGG ACCCAAAGTG TTCTGTGCTG TAAACTGATG
 340301 ACCTGGGAGC TTGGGCACCA ATAGATGAAG CTCCCAGGAA GGGGAATCTA
 340351 GCCTCCGCTC TTGGTGAAGA CAGTGCTCAT GCTAAAGCCT GTTGAGTGAG
 340401 TTTATCAGTT CTGTTCTGAT TACCTGATGT CTCTGGCTCC TTGATTTTC (SEQ ID NO:3)

FEATURES:

Genewise results:

Start: 10518
 Exon: 10518-10643
 Exon: 41341-41374
 Exon: 207620-207868
 Exon: 291903-292096
 Exon: 295781-295909
 Stop:

Sim4 results:

Exon: 2001-2175, (Transcript Position: 1-175)
 Exon: 10508-10643, (Transcript Position: 176-311)
 Exon: 41341-41374, (Transcript Position: 312-345)
 Exon: 207620-207868, (Transcript Position: 346-594)
 Exon: 291903-292096, (Transcript Position: 595-788)
 Exon: 295781-295904, (Transcript Position: 789-912)
 Exon: 337911-338449, (Transcript Position: 913-1451)

CHROMOSOME MAP POSITION:

Chromosome 5

ALLELIC VARIANTS (SNPs):

DNA	Position	Major	Minor	Domain
	1107	C	T	Intron
	5479	C	G	Intron
	5480	A	G	Intron
	6100	C	T	Intron
	6122	G	A	Intron
	6883	A	G	Intron
	7641	C	G	Intron
	8493	C	T	Intron
	9626	T	A	Intron
	9627	T	-	Intron
	9796	C	A	Intron
	9868	G	A	Intron
	10209	T	C	Intron
	10311	T	G	Intron
	10831	C	T	Intron
	12230	C	T	Intron
	13378	C	T	Intron
	13423	G	-T	Intron
	13425	G	- C	Intron
	14070	C	-	Intron
	14116	A	G	Intron
	14508	C	T	Intron
	14645	A	C	Intron
	14932	G	A	Intron
	16272	C	G	Intron
	16945	C	T	Intron
	17065	A	G	Intron
	17442	A	G	Intron
	17475	C	G	Intron

17844	A	C	Intron
17929	A	G	Intron
18283	C	-	Intron
18540	C	G	Intron
18592	C	T	Intron
18616	A	G	Intron
20491	C	T	Intron
22023	A	G	Intron
22248	A	G	Intron
23118	G	C	Intron
23789	C	A	Intron
23800	T	A	Intron
23930	T	A	Intron
24159	T	G	Intron
26339	G	A	Intron
26508	T	G	Intron
26570	T	A	Intron
26582	A	G	Intron
26693	G	A	Intron
26884	C	T	Intron
27320	C	T	Intron
27339	A	T	Intron
27542	G	A	Intron
28586	A	C	Intron
28591	C	T	Intron
28599	G	A	Intron
30857	A	G	Intron
31503	A	T	Intron
33107	T	-	Intron
33671	A	G	Intron
35045	C	T	Intron
35944	G	T	Intron
37157	G	A	Intron
37603	A	T	Intron
39242	C	G	Intron
39404	A	C	Intron
40395	C	G	Intron
42294	G	T	Intron
43354	A	G	Intron
43522	A	G	Intron
44875	C	A	Intron
45677	A	G	Intron
46024	A	G	Intron
49591	C	T	Intron
49822	A	G	Intron
50057	G	A	Intron
50523	G	A	Intron
51537	C	T	Intron
52702	C	-	Intron
53996	T	C	Intron
56613	A	C	Intron
58383	G	A	Intron
58512	A	G	Intron
59951	G	A	Intron
63246	T	C	Intron
63904	A	G	Intron
65698	T	A	Intron
66118	A	G	Intron
66158	A	G	Intron
66604	G	A	Intron
67766	C	T	Intron
67863	A	G	Intron
69511	C	T	Intron

FIGURE 3, page 110 of 188

69538	A	G	Intron
69782	C	T	Intron
70895	T	A C	Intron
71575	C	T	Intron
72112	C	T	Intron
72665	A	G	Intron
72798	A	T	Intron
73738	A	G	Intron
81059	G	-	Intron
81061	T	- G	Intron
81328	A	C	Intron
81617	A	G	Intron
81788	G	C	Intron
81882	C	T	Intron
82932	G	A	Intron
84585	A	G	Intron
85092	T	-	Intron
85096	C	-	Intron
85100	T	-	Intron
85318	C	T	Intron
85467	C	T	Intron
85488	C	T	Intron
87268	A	G	Intron
89813	G	C	Intron
91487	T	-	Intron
92081	A	G	Intron
92888	A	T	Intron
93194	G	T	Intron
94938	C	T	Intron
95367	C	T	Intron
95495	C	T	Intron
95755	A	- G	Intron
97031	C	T	Intron
97176	A	G	Intron
97768	C	T	Intron
98400	C	T	Intron
99782	A	G	Intron
104080	C	T	Intron
104087	G	C	Intron
105134	C	T	Intron
105911	T	C	Intron
105944	C	T	Intron
105970	A	G	Intron
106134	G	A C	Intron
106148	C	T	Intron
107058	A	G	Intron
107310	T	-	Intron
108283	A	G	Intron
109168	G	- T	Intron
110938	A	G	Intron
111713	G	A	Intron
113984	T	C	Intron
115302	G	T	Intron
115352	G	T	Intron
115804	C	G	Intron
115862	A	C	Intron
118203	A	-	Intron
124933	C	T	Intron
126402	C	T	Intron
127387	T	A	Intron
128453	G	A	Intron
128584	T	C	Intron
128680	A	-	Intron

FIGURE 3, page 111 of 188

129116	A	G	Intron
129549	A	C	Intron
129820	A	T	Intron
129934	A	G	Intron
132304	A	G	Intron
133008	A	G	Intron
133347	A	G	Intron
133374	T	C	Intron
133636	A	G	Intron
134315	A	G	Intron
136612	A	G	Intron
136839	C	T	Intron
136964	A	G	Intron
137136	C	T	Intron
139365	C	A	Intron
141321	C	-	Intron
141736	A	- T	Intron
142173	A	G	Intron
142337	G	T A	Intron
142788	C	T	Intron
146349	G	T	Intron
147030	G	T	Intron
147884	A	G	Intron
148673	T	C	Intron
149048	A	T	Intron
151229	A	G	Intron
151848	A	T	Intron
152415	A	G	Intron
152539	C	G	Intron
153191	A	G	Intron
153232	A	T	Intron
153817	A	T	Intron
156544	T	C	Intron
156579	A	G	Intron
157391	A	C	Intron
158718	A	G	Intron
160186	A	G	Intron
161108	G	T	Intron
162060	C	G	Intron
165993	A	T	Intron
166679	C	T	Intron
167136	T	A	Intron
173782	T	- A	Intron
176290	T	C	Intron
181889	A	G	Intron
182606	C	T	Intron
184663	C	T	Intron
185392	C	T	Intron
186612	T	C	Intron
187014	C	T	Intron
187090	G	-	Intron
187290	C	G	Intron
187862	T	C	Intron
187937	G	A	Intron
188286	C	T	Intron
188478	G	A	Intron
189156	A	G	Intron
189488	T	C G	Intron
189909	A	G	Intron
189910	T	G	Intron
194673	T	A	Intron
194808	T	C	Intron
194884	A	G	Intron

FIGURE 3, page 112 of 188

195290	A	-	Intron
195939	C	G	Intron
196291	A	C	Intron
196533	A	C	Intron
197176	A	G	Intron
199693	A	T	Intron
199734	G	A	Intron
201371	T	A	Intron
201433	T	C	Intron
201848	A	G	Intron
202730	G	A	Intron
204904	G	A	Intron
205171	G	A	Intron
205991	T	G	Intron
206052	C	G	Intron
207237	C	T	Intron
208791	C	G	Intron
208799	C	G	Intron
209076	C	T	Intron
209143	A	G	Intron
209185	C	G	Intron
209499	C	G	Intron
209614	G	T	Intron
209708	C	G	Intron
210292	A	T	Intron
212286	A	C	Intron
212767	T	C	Intron
212809	G	A	Intron
213100	G	A	Intron
215017	A	G	Intron
215021	C	T	Intron
215180	C	T	Intron
215370	A	G	Intron
215412	G	-	Intron
216552	C	T	Intron
217007	A	G	Intron
217549	A	T	Intron
217567	A	G	Intron
218100	G	T	Intron
219737	A	G	Intron
220681	C	T	Intron
221225	C	T	Intron
221960	A	C	Intron
222673	A	C	Intron
223053	T	C	Intron
223881	A	T	Intron
224236	G	T	Intron
224238	A	G	Intron
225653	T	C	Intron
226563	G	T	Intron
227365	G	T	Intron
228457	G	A	Intron
228488	A	G	Intron
228531	A	G	Intron
228665	A	C	Intron
230490	A	G	Intron
230976	T	-	Intron
236111	T	C	Intron
236317	A	-	Intron
236323	T	-	Intron
236325	G	-	Intron
236345	G	C	Intron
236534	C	G	Intron

FIGURE 3, page 113 of 188

238076	A	G	Intron
239545	G	A	Intron
247765	A	G	Intron
250858	T	G	Intron
251536	A	G	Intron
252599	A	T	Intron
252647	T	C	Intron
252649	G	A	Intron
252783	G	A	Intron
253875	A	G	Intron
254076	T	C	Intron
254547	G	A	Intron
254892	A	T	Intron
258431	G	A	Intron
261462	G	A	Intron
262167	G	T	Intron
263806	A	C	Intron
265167	A	G	Intron
265258	G	A	Intron
267127	T	C	Intron
268343	C	T	Intron
268640	C	T	Intron
269021	T	G	Intron
269429	C	A	Intron
269739	A	G	Intron
271247	G	-	Intron
272820	T	G	Intron
274065	G	A	Intron
276592	G	T	Intron
276628	C	T	Intron
279257	C	A	Intron
279925	T	C	Intron
280127	T	A	Intron
280433	C	A	Intron
282808	G	-	Intron
283120	G	A	Intron
283749	T	C	Intron
284339	G	T	Intron
284382	T	C	Intron
287120	C	T	Intron
287415	C	T	Intron
287683	A	G	Intron
287699	G	A	Intron
287723	A	C	Intron
287833	G	A	Intron
288000	G	C	Intron
288050	A	T	Intron
288331	G	A	Intron
288438	C	-	Intron
288625	C	T	Intron
288819	A	G	Intron
291274	T	C	Intron
292997	C	T	Intron
296708	A	G	Intron
296744	T	C	Intron
297548	A	G	Intron
298436	C	T	Intron
300652	T	C	Intron
300653	G	A	Intron
300747	G	A	Intron
300776	A	- G	Intron
300874	G	A	Intron
301027	T	A	Intron

FIGURE 3, page 114 of 188

301640	A	G	Intron
302581	G	A	Intron
304512	G	C	Intron
305258	G	A	Intron
307676	C	G	Intron
309692	T	-	Intron
311656	G	T	Intron
311776	G	A	Intron
311901	G	A	Intron
312574	G	T	Intron
312593	C	T	Intron
312694	T	G	Intron
313283	A	G	Intron
313403	A	G	Intron
313982	A	G	Intron
314043	G	A	Intron
314103	G	A	Intron
314832	G	T	Intron
315368	C	G	Intron
315431	T	C	Intron
315993	T	-	Intron
316107	A	G	Intron
316352	C	G	Intron
319520	G	A	Intron
319699	A	C	Intron
320863	G	A	Intron
321530	T	C	Intron
323257	A	G	Intron
323754	A	G	Intron
324544	A	G	Intron
324599	A	C	Intron
324921	C	T	Intron
327295	C	G	Intron
330836	G	A	Intron
331239	T	-	Intron
331612	T	C	Intron
331823	C	T	Intron
334749	A	G	Intron

Context:

DNA
Position

1107 TGGACCCCCAGACCAAAACTGTGTGATGCCAAGACCGCGCTGGCCCATTCACTGCTGTATC
TCTAGCAACTATTAATAGCACAGTCGCTGCTGCATTGGGGGGTCAGCGGCAGGAAAAT
CTGTTGAAGGAAAAAACAAACGTAATATCTCTTCAGGTCAAGCCTCCATTATTCTT
CCCCCTTTCTTATATTAACTTCATCTCAGAAAATCCCCCTGTCACCTCCCC
CCGGCCAGGAGAGATTACAGAGGCATGGACAGAACACTGTTCACCTAACCCAGGAAGGCC
[C, T]
CTGGTGCCCCACGCAGCCAGAGCAGGGCAGGCCCTCAGAAAGTCTCCTGGCCATCAGCC
TGGCCTGGGTAGGGCTCCCTCTAACGTTCTGCCAGACTGAGGCTACGTATGACCATT
TATGGGCCCTAGTTGTTACAAGGTGTTCCAGTTCATCGGGAGGAAGACTGATCTC
AAAAGCTGCTGATGTTAAAGAGGGATTCAAGAAAAGTTGGGAGCCCCAGGCTGGGATG
GGATCAGGATGGGAAATATCCTGTTCTAAGGGAGAAGGGACCCCTGGGCCAGCTAGG

5479 GCCAACATGCCATGTATGAAATGCTACACACCTACAGTGTGTAGGGCAGACACTTTT
CATTGGAAAGGTTGAGAATGCAAGATGCTTCAGGGTCACAAATCTGACTGTTCTCTCAA
GGCTGGGTGGCATTGCTTGGCTGCTGCCAAATCATCTTGTAAATTCTGGTCTGTTGATT
ACAAAAAGAAGCCATTCTGTATGGCTAACCTTAATGGCTAGTCTGGTAAAGTTACCAA
GTTCTGGAGAGAGGCTGAGAGAGAGAATGGATGAACAATGCCACCGAAACTCTGAGGGC
[C, G]
AGAATTCCCATTCTCCAACAGGGCTGTTCTGGAATAGAAAGAGAAGTTGTATTAA
ACCCATTGCCAGTTAATGGGATTGCTCTCTGGCCTATGAACCTGGTCAATAAGAC

AGCTTACATGCCGTGCGTTCTGGGTGGGCAGATTTGGTATTTCATATGAATA
 CCTATTCTCCCTAACAAATTGCAATTCTATTCATGCTTTTCAGCTTCTCAAAAAG
 CAAGTCAGTATTGGAATGTTACATCATACTAACCTGTAATACCTCTGTAATTCTAAATA

 5480 CCAACATGCCATGTATGAAATGCTACACACCTACAGTGTGTAGGGCAGACACTTTTC
 ATTTGGAAAGGTTGAGAATGCAGATGCTCAGGGTACAAAATCTGACTGTTCTCTCAAG
 GCTGGGTGGCATTGCTGGTCTGCCAACATCATCTTGTAAATTCTGGTCTGTTGATTA
 CAAAAAGAAGCCATTCTGTATGGCTAACCTTAATGGCTAGTCTGGTAAAGTTACCAAG
 TTCTGGGAGAGAGGCTGAGAGAGAGAATGGATGAACAATGCCACCGAAACTCTGAGGGCC
 [A, G]
 GAATTCCCATTCTCCAAACAGGGCTGTTCTGGAAATAGAAAGAGAAGTTGTATTAAA
 CCCATTGCCAGTTAACGGGATTGCTTCTCTGGCCTATGAACTTGGTCAATAAGACA
 GCTTACATGCCGTGCGTTCTGGTGGGGCAGATTTGGTATTTCATATGAATAC
 CTATTCTCCCTAACAAATTGCAATTCTATGCTTTCAAGCTTCTTCAAAAAGC
 AAGTCAGTATTGGAATGTTACATCATACTAACCTGTAATACCTCTGTAATTCTAAATAC

 6100 TATTAGCTTATTAGAACACCTGAAAATCCTGTGGTTTACAAGGAGGTAGACAATCT
 AGTGAGGTCTTCAGCATTGAGAAAAGCAAATCTGCCATCTAAACAAAGAATCCAAA
 CTCCCACTCTAGATGTAAGTGTGCCATAATATAAGGAACCAAACAGTTGCCCTGGGGCA
 GGATGCCTGGTTCAGTTAGGCCTAGCCACTGATTGTCCTGAACCTGGTGGATT
 GTCCACCTCTGGTCTCTGGTCTATGCGGCAGCCAGGTTAGCACCAAGGTTCT
 [C, T]
 CTGACTGGGGAAATGTCGTGAAAGCTCTGGTAGGAAACCACAGGGGAAGCAATGAAACA
 CCTCCCTTCAAACAAGATGTTAACAGCATCAAGTCAGTGTACTTTATGACTTGG
 ACAAAAGGTAGTCTCAGCTTTATATGGGACAGTCTAGGTAGATTATAATTAAATAC
 TTAGGGCTTAGCAAGGATTGAATGAAACTTATTAAATCTAAATTGATCTCAAAGGAGCTC
 TAGTTTAAAGGGATTGTGACCTATGGATGGCACCTTCCCAATTCTATAATGGGG

 6122 TGAAAATCCTGTGGTTTACAAGGAGGTAGACAATCTAGTGGAGGTCTTCAGCATTGA
 GAAAAGCAAATCTGCCATCTAAACAAAGAATCCAAACTCCACTCTAGATGTAAGTGT
 GCCATAATATAAGGAACCAAACAGTTGCCCTGGGGCAGGATGCCCTGGTCTCTGGT
 GCCTAGCCACTGATTGTCCTGAACCTGGTGGATCGTCCACCTCTGGTCTCTGGT
 GTCCTATCTATGCCAGGTTAGCACCAAGGTTCTCCTGACTGGGGAAATGTCGTT
 [G, A]
 AAGCTCTGGTAGGAAACCACAGGGGAAGCAATGAAACACCTCCCTCAAACAAGATGGT
 TAAAGCATCAAGTCAGTGTACTTTATGACTTGTGAAACAAAGGTAGTCTCAGCTCTT
 TATATGGGACAGTCTTAGGTAGATTATAATTAAACTTAGGGCTTAGCAAGGATTGAA
 TGAAACTTATTAAATCTAAATTGATCTCAAAGGAGCTAGGTTAAAGGGATTGTG
 ACCTATGGATGGCACCTTCCAATTCTATAATGGGAGATTCTGCAATTGCTCTATC

 6883 TCCCCCTTTCTTCTACCGTATTTCTAGCCCCATAAATAGAGCAGCAGTGAGGACT
 GAGGAGAGCTGCCAGGGCCCCCATCCGGGTTAGAATGTGGGAAATTAGGGTGGAGCA
 GCTGGCTCTGCCCTGGGGAGCCATGAGGAGGAGAGTAGCTCGTGGCAGCTTCA
 GAGGAAGGAGAGCTCGGGCCAGGGCTCTATCTTACTGTCCTAGATTCTCCCAT
 TATACTAAAACAACGTTTATCAAACAAACAGGCAGGACAAACAAACAGACAGGC
 [A, G]
 GCAGCAGGTGGAGTTAAGAGAATAGATGTCGTGGCTACGTGCCGACTTGGAAATT
 AGTTTGCCACTGTCTGCCACATGCCCTGGCAGAGTCCTAACCTCTGTGACCCCA
 TCTCCTCTTCTGATTGAGGGATAATCATTGCCCATCATGGAGTAGAAAAAGGAG
 GGTTATGAGTTAACCTGTGAAGTGCTAGAACAGTGCCTGACACATGTAATTGCTAT
 ATAAGTGTAAACAAATAGATAGTCTATTGATTAGACAGATAATCAAATTGAT

 7641 CTAGTGGTAGACAGACTGAGCTAAACTTACAAACAAAGCTGCCAGGGTATTTCAGTAG
 TTGGCCTGGCTCATGTTCTGTTCCAGAGTCTCTGTTCCAGATAACATCTTA
 CAGGAAATATAAACACAAACAGATAAAACAGCTGGCAACTCCAGGCCAGCTCCAGGCT
 TGGATCTGGGCTCTGAAACACAACCCAGAAACAGCAGTCTGGTGCATCCTTAT
 GAACTGATTGGCGCTGCCAAATCACAGTTGAATGAATATATTTATTTAATGCTA
 [C, G]
 CCATTAGTACCAAAACATAAAACATAATTGATCTTAGATTACAAAGCAGATTAAGGTTA
 AATACCAGATTGTCGGCTTATGTATTCATAACTCCAAGAGTGTGACATCTGTACATTAA
 CTAGAATAGATTGGATTATCTGCTGTTTCTGTTACTCTGTGAGCAATGTTGATAGTAGATA
 AGTAGGACAAAATTAATGAGAATAAGAAGCAATGCTTCTAGTTCTAGCTAAATTCT

8493 TCTCTATTAAAAATACAAAATTAGCTGGCATGGTGGCGATGCCGTATCCCAGCTAC
 TCGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCGA
 GATGCCACCATTGAACTCCAGCGCAGGCTACAAGAGTGAAACTCCATCTCAAGAAAACAA
 TAAAAACAGGGTGCAGTTAGGGAGACATTCTTAGTCCGAATATGATTTCT
 TTTCTGCTCCTCTCCCTGTAAGATTACACACCTAGCTAGATCACTGGATCAAGAG
 [C, T]
 GCAGAACGCCATTGGGGGGCAGGGAGGGAGTGCCTGACTGCCGCAGTCCTCACAGTCCT
 CTCCCGGGTGGCAGCTGAAGCGCATTATTCCACTCAACTCTGCCTCTTCAGAGTGTGG
 GGCAGGTGCTGATGGTAGACTGTGACCTTCAGATTATTTACTGACCACCCAGACTCT
 TTTCTGGTAGCTCAGTTGCAACAGATGTCAGGATGAGTGACCGAAGAACAGATA
 TAAGAGTGGGAGCTTATGGACTCTTTAAAACAAGCAGACACCTCTTAAAGACAG

 9626 ATCTGGTTATGTTCATAACTCAGAACACTGAAATTATGGTGGACTGTGTTCACAGTGGAA
 AAACTTTCCAAAAAAAGTACAGCTTATGGACAAGTAAGATAGTCTGTATCCTCATTTC
 CTCAGCACAATGCTTAGCACATGATTGGACTTGAATATTGTTGAGCTGATCCTTAGT
 TTTTCATCCATGTGATTATTGATTACCTTGAATTGCTCACTCTTGCTCTTTAGGACT
 GTATACAGTAATGTTATCAAGTGAGCCTCAGGAAACACCTCAAAGGTATTGAAATTCTG
 [T, A]
 TATCATTGGATGCTGGATTCTGCCACAAAAAAATGGTGGCTTGAAACATAAGATATTAG
 ACCTTATGATGCCATTGAAAGCTCACTGTCTTAAACTGAGGTGTCGGCTGCAAATGA
 GGTGCCAGAGATGTAACATAATTCTTAATCATCATTCTTTTGAGACAAGAGTCTCA
 CTCTGTCGCCAGGTTAAAGTCAGAGGTATGATCTGGCTCACTGCAACCTCCGCTCC
 CGAGTTCAAGCGATTCTCCTGCCAGCCTGAGTAGCTGGAATTACAGGTGCCTGCT

 9627 TCTGGTTATGTTCATAACTCAGAACACTGAAATTATGGTGGACTGTGTTCACAGTGGAA
 AACTTTTCCAAAAAAAGTACAGCTTATGGACAAGTAAGATAGTCTGTATCCTCATTTC
 TCAGCACAATGCTTAGCACATGATTGGACTTGAATATTGTTGAGCTGATCCTTAGT
 TTTTCATCCATGTGATTATTGATTACCTTGAATTGCTCACTCTTGCTCTTTAGGACTG
 TATACAGTAATGTTATCAAGTGAGCCTCAGGAAACACCTCAAAGGTATTGAAATTCTG
 [T, -1]
 ATCATTGGATGCTGGATTCTGCCACAAAAAAATGGTGGCTTGAAACATAAGATATTAGA
 CCTTATGATGCCATTGAAAGCTCACTGTCTTAAACTGAGGTGTCGGCTGCAAATGAG
 GTGCCAGAGATGTAACATAATTCTTAATCATCATTCTTTTGAGACAAGAGTCTCAC
 TCTGTCGCCAGGTTAAAGTCAGAGGTATGATCTGGCTCACTGCAACCTCCGCTCCC
 GAGTTCAAGCGATTCTCCTGCCAGCCTGAGTAGCTGGAATTACAGGTGCCTGCTA

 9796 GATCCTTAGTTTTCATCCATGTGATTATTGATTACCTTGAATTGCTCACTCTTGTC
 TTTTAGGACTGTATACAGTAATGTTATCAAGTGAGCCTCAGGAAACACCTCAAAGGTAT
 TGAAATTCTGTTATGGATGCTGGATTCTGCCACAAAAAAATGGTGGCTTGAAAC
 TAAGATATTAGACCTTATGATGCCATTGAAAGCTCACTGTCTTAAACTGAGGTGTCG
 GCTGCAAATGAGGTGCCAGAGATGTAACATAATTCTTAATCATCATTCTTTTGAGA
 [C, A]
 AAGAGTCTCACTCTGTCGCCAGGTTAAAGTCAGAGGTATGATCTGGCTCACTGCAAC
 CTCCGCCCTCCGAGTTCAAGCGATTCTCCCTGCCAGCCTCCTGAGTAGCTGGAATTACA
 GGTGCCCTGCTACCACGCCAGCTAATTGTTGATGTTAGTAGAGACCGGGTTCACCAT
 GTTGGCCAGACTGGTCTCAAACCTCTGACCTCAAGTGATCCATCTACCTCCGCTACCAA
 AGTGGTGGGATTACAGGGTGTGAGCCACTGCCAGGCTAAATCATAGTTCTCGAGCA

 9868 ATACAGTAATGTTATCAAGTGAGCCTCAGGAAACACCTCAAAGGTATTGAAATTCTGTT
 ATCATTGGATGCTGGATTCTGCCACAAAAAAATGGTGGCTTGAAACATAAGATATTAGA
 CCTTATGATGCCATTGAAAGCTCACTGTCTTAAACTGAGGTGTCGGCTGCAAATGAG
 GTGCCAGAGATGTAACATAATTCTTAATCATCATTCTTTTGAGACAAGAGTCTCAC
 TCTGTCGCCAGGTTAAAGTCAGAGGTATGATCTGGCTCACTGCAACCTCCGCTCCC
 [G, A]
 AGTTCAAGCGATTCTCCTGCCAGCCTGAGTAGCTGGAATTACAGGTGCCTGCTAC
 CACGCCAGCTAATTGTTGATGTTAGTAGAGACCGGGTTCACCATGTTGCCAGACT
 GGTCTCAAACCTCTGACCTCAAGTGATCCATCTACCTCCGCTACCAAAGTGCTGGGATT
 ACAGGGTGTGAGCCACTGCCAGGCTAAATCATAGTTCTCGAGCACTATTGTGTGC
 CTAGCCCCAAATGTTCTCAGGAAACTAAGGCGTGGCTATGGCAGCCTAATAGAGGT

 10209 GAATTACAGGTGCCTGCTACCACGCCAGCTAATTGTTGATGTTAGTAGAGACCGGGT
 TTCACCATGTTGCCAGACTGGTCTCAAACCTCTGACCTCAAGTGATCCATCTACCTCCG

	CCTACCAAAAGTGTGGGATTACAGGTTGTGAGCCACTGCGCCAGCCATAATCATAGTT CTCGAGCACTAATTGTGTGCCTAGCCCCAAATGCTTCAGGAAACTAAGGCGTGGCTA TATGGCAGCCTAATAGAGGTGACCCACCTGCCTCACCCGGTTGTTCTTATAGATGTAA [T, C] GGTAGGTGGCATTCAAATGGGTTCCACGTAACAGCATTAGAGTTCTTACTCTATG CCTGACACTAACCTCCTCAATCCTCACAAAAGCCTTCAGGTTACATATTATGCCATT TAGAAATAAGTAAACTAAGGCTCAGAAGTAATATAACCTCTCCAAGGTAGAACAGAAGTT TGGTGCAGGATTAAACCCAGGCTTATGATTCTGGGAACACATAACTCACTGTT GACTTATTATATCCATCTCATATGTTTATTCTCAGCATTGTCATTCACACAGAC
10311	GTGATCCATCTACCTCCGCCTACCAAAGTGTGGGATTACAGGTTGTGAGCCACTGCGCC CAGCCATAATCATAGTTCTCGAGCACTAATTGTGTGCCTAGCCCCAAATGCTTCAG GAAACTAAGGCGTGGCTATATGGCAGCCTAATAGAGGTGACCCACCTGCCTCACCCGGT TTGTTCTTATAGATGTAATGGTAGGTGGCATTCAAATGGGTTCCACGTAACAGCATT ATAGAGTTCTTACTCTATGCTGACACTAACCTCCTCAATCCTCACAAAAGCCTTCAG [T, G] TACATATTATTGCCATTAAAGAATAAGTAAACTAAGGCTCAGAAGTAATATAACCTCTC CAAGGTAGAACAGAACAGTTGGTGCAGGATTAAACCCAGGCTTATCTGATTCTGGGAA CACATACTAACTCACTGTGACTTATTATATCCATCTCATATGTTTATTCTCAGCATT GTCATTCTTCAACAGACTCATCAAATGAAACCAGGAGGCTTGGCTGCATCTCACAC TGCTCGGAGCCTCCCTGCCGCTGCGCTGGATGGATGGACCCAGGAACCAGCAGAGGCC
10831	GCTTTGGCTGCATCTCACACTGCTCGGAGCCTCCCTGCCGGCTGCGCTGGGATGGATGG ACCCAGGAACCAGCAGAGGCCGGATGGGGTGTGGGGAGTCACAGGAGGGTATAGT CAAATCCCTGCGACATAACATTCAAACGTTAGCTGTTCCGATGTTACAGTATCTGATT TCCCCCTCACCTTAGTTAGATCAGTTAGATCACAAGTGAATTAAAATTGCACTTCC TTTGGTGGGACAGAAGAAGGCAACCTGTGTGGATACAGACAAGAGGTTGATAACACGA [C, T] GTGAGTAATGGCTCTAAAACCTCTCAGATGCTGAAAGTGTATTCCGAAACCAAGCTTGAA TTGCCTGGTTAGTCTCTACAAAGACCCCTCAGGAGAATGGCCTTCTGTATATTAA ACTCTGAAAATGCAGAGTAATTGGTGGAGCACACCCATGTGAATTAGTGAAGTATTAA TTATAAAATATATTGAAAAGAAATGGACTACTTTCAGGTATATAGATAGAAAGCACCA GGCTGAGAAAGAACTGGCAAGTGGAGGTCTAAGGGAGAGTGCTTAATGAACAGATAAG
12230	TCACTTAAATCCTACACATATATTGTTGAATATTAAAGCAAAGCAAACAGACAAACAC ACAGGTAAGCTTAGTCTTCTACTATTGGGCTCATGGCCCACGTGTTAACCACTTA TTTCAAATAAAAGTATCAAGTCATTAAGGTGGATTAGCTGGAGGTAAATTGAAGGTA AGTTAATATCAACCCAGGGCCTTTATCTAGCTGTTACACCCCTAATTCTTGTGTGC CAACAAGAAGGAGCAGATGCTGGTATTGGAGGAAGTAACGCTTTGGGGTTGTTAT [C, T] TTGCTCCCTGCAACCCCTGCTCCAGGGTAGCTTGTCTCCAAGTCCAGGAATGTTGC TGCTTCAGGAAAGGGAGGTGATGACTGTGAGATTCTGCACCACAAGAACTATTGCCCTA TTGATCATATATAGTTCTAGCTGATTAAATGAGATGATAATAATGGGAATGGCCTAGGG CTTAGGATGGCCTAGGTTAAAGGTTAGCTGCAGAGAACAGAACACTTCCAGGTACGGTG
13378	TCACACCTGGTCTTTTCTGAATTCTTAGTCCTCTCTCTTTGTTCTTACT CTTTTATTTTACGTTAGCATATGGATGGAGCCTGCTTATTATCTTTCTCCTTACA GTGCCTAATAATTATAAGCAAATAGAGGTTGATGCAATTAAAGCCAATCGATATT TATGTGACCTTGGTCTGGTCATAAAAGTCACTGGTCTCCAAAATTCAGACCAAGAC CATCAGGTATTTCAGCGCAGGGCATACCTCCCTGCACAGCAGGTTCACTCCAGTGGGA [C, T] GTGGATGGTTTCCCCAGCAAATCTGAGCAGCCTGCAGGCCAGGCCAGGCTTGCACTCT AATATCCAAGATAGTCCTCGCTGTTAGTTCTGGTAGTTATTATGAACTGTAG CTATTAAATGTATCGATAACTCACAGTCCAAACCATATTAAACCTCTAGCAGTTCTGC AGACAGTCTTATTTCGGAAAGAATCAAACCAAGCAGAGTTCTGAGACTCTAAATAAG TGAAAAACCTTTTCAGGAACCAGATATTAAATGTTCTGCATTCCTCCAGTAGTAG
13423	TTTGTGTTCTTACTCTTTATTTACGTTAGCATATGGATGGAGCCTGTTATTAT CTTTCTCCTTACAGTGCCTAATAATTATAAGCAAATAGAGGTTGATGCAATT AAGCCAATCGATATTATGTGACCTTGGTCTGGTCATAAAAGTCACTCTGGTCTTCCA AAATTCAAGACCAAGACCATCAGGTATTTCAGCGCAGGGCATACCTCCCTGCACAGCAGGTT CATTCAGGTGGGACGTGGATGGTTCCCCAGCAAATCTGTGAGCAGCCTGCAGGCCG

[G, -T]
ACAGGCTTCATCTAATATCCAAGATAGTCCTGCGTGTATAGTTCTGGTAGTTA
TTATTGAACTGTAGCTATTAATGTATCGATAACTCACAGTCCAAACCATACTAAACTCC
TCTAGCAGTTCTGCAGACAGTCTTATTTCCTGGAAGAATCAAACCAGCAGAGTTCT
GAGACTCTAATAAGTAAAAACCTTTTCAGGAACCAGATATTAAATGTTCTGCATT
TCTTCCCAGTAGTAGTACTTCACACAAACTCATTGACTTAAGATTTAAAGTACTTA

13425 TTGTTTCTTACTCTTTATTTACGTTAGCATATGGATGGAGCCTGTTATTTATCT
TTTCTCCTTACAGTCCTAATAATTATAAGCAAAATAGAGGTTGATGCATTTAA
GCCAATCGATATTATGTGACCTTGGTCTGGTCATAAGTCACTCTGGTCTCCAAA
ATTCA GACCAGACC AT CAGGTATTCAGCGCAGGGCATA CCTGCACAGCAGGTCA
TTCC CAGTGGGACGTGGATGGTTTCCCAGCAAATCTGTGAGCAGCCTGCAGGCCGGA
[G, -, C]
AGGCTTCATCTAATATCCAAGATAGTCCTGCGTGTATAGTTCTGGTAGTTTATT
ATTGAACTGTAGCTATTAATGTATCGATAACTCACAGTCCAAACCATACTCCTC
TAGCAGTTCTGCAGACAGTCTTATTTCCTGGAAGAATCAAACCAGCAGAGTTCTGA
GACTCTAATAAGTAAAAACCTTTTCAGGAACCAGATATTAAATGTTCTGCATTTC
TTCC CAGTAGTAGTACTTCACACAAACTCATTGACTTAAGATTTAAAGTACTTAGA

14070 TTACTTGATTGACCTAACGGTAAATAAGAATTAAATGACCAACCGTGTGTCACATA
TTTTAAAGCAATTATAGCAAGTGTAAATTATTGT TTTATGTACAAGACTGCAGTGG
AATAGTTCAAGGAGTTACCATTTACAGACATAGATAAAAAGAAATACAGCTGGTGG
AGTGCCTCTTCATAAGAGTGGAGTGGCAGAACGTGCCCTAGAATACTAATGAAATTCTG
AATT CAGAGGAAACAATTCTGAGAGGTACAATTATTGAAATAATGAAATGTTATAT
[C, -]
CCCCCCCCCTTATCCTACACAGATGCATTGACTTATGACGGGATTACATCCAAATAA
ACCCACTGTAAGTGGAAATATCATAGGTGCAAAATGTATTTCATACACCTATCCTACCA
AACATCGTAGCCTAGTCTGACCTGCCCTAGCATGCTCAGAACACTGACATTAGCCTACA
CTTAGGGCAAATCATCTAACACAAAGCCTATTTTATAATAAAATGTTGAATATCTTATG
TAATTATTGAATACTGTACTGAAAGTGACAAACAGAAGGGATGTATGGCACTTAAAG

14116 TGTGTGTGCACATATTTAAAGCAATTATAGCAAGTGTAAATTATTGTTATGTACA
AAGACTGCAGTGGAAATAGTTCAAGGAGTTACCATTTACAGACATAGATAAAAAGAA
ATACAGCTGGTGGAGTGCCTCTTCATAAGAGTGGAGTGGCAGAACGTGCCCTAGAATA
CTAATGGAATTCTGAATTCTGAGAGGAAACAATTCTGAGAGGTACAATTATTGAAATAATG
AAATGTTGTTATATCCCCCCCCCTTATCCTACACAGATGCATTGACTTATGACGGG
[A, G]
TTACATCCAAATAACCCACTGTAAGTGGAAATATCATAGGTGCAAAATGTATTTCATA
CACCTATCCTACCAACATCGTAGCCTAGTCTGACCTGCCCTAGCATGCTCAGAACACT
GACATTAGCCTACACTTAGGGCAAATCATCTAACACAAAGCCTATTTTATAATAAAATG
TTGAATATCTTATGTAATTATTGAAATACTGTACTGAAAGTGACAAACAGAAGGGATGTA
TGGGCACTTAAAGTACGATTCTACTGAAATGTTGATCATTTCTACTATGCTCATGTT

14508 TGACCTGCCCTCAGCATGCTCAGAACACTGACATTAGCCTACACTTAGGGCAAATCATC
TAACACAAAGCCTATTTTATAATAAAATGTTGAATATCTTATGTAAATTATTGAAATACTG
TACTGAAAGTGACAAACAGAAGGGATGTATGGCAGTTAAAGTACGATTCTACTGAAT
GTGTATCATTTCTACATATGCTCATGTTGAAAATCCTAACGTCAAACCAAACCTAAC
AGGGACTGTCTGTACACTGGTCAAGATAAAATAGTAGTAAATCAATATTGATAGAATT
[C, T]
TGTATTGAGGGGGAAACCAAGGAACCAGGAAGGGGTGAGAAGTGATATGGTAGCAGCCTC
CAGAGAGCATACCTGCTTGTGAGAAATAGCATTGAGGGAGCCCCACTTTGGGGCC
TGGGTGCTGCACTGGCCCCCCCCTTTGAGCCTGGGTGCTGTGGCAGGAGCCTCC
CTTTGGGGCTAGGGTGTGCCATTGGAGCCACCCATTGGGGCTGGGTGCTATG
GTGGGAGCCTCCACTTTGGGGCTGGGTGCTGTCCAGCACCAGCATCTCACCCAT

14645 AGAAGGGATGTATGGCACTTAAAGTACGATTCTACTGAAATGTTGATCATTTCTAC
TATGCTCATGTTGAAAATCTAACCTAACCAACCTAACGTCAGGGACTGTCTGTACAC
TGGTCAAGATAAAATAGTAGTAAATCAATATTGATAGAATTGTTGAGGGGGAA
CCAAGGAACCGGAAGGGGTGAGAAGTGATATGGTAGCAGCCTCCAGAGAGCATACTGC
TTTGAGAAATAGCATTGAGGGAGCCCCACTTTGGGGCTGGGTGCTGCAGTGGC
[A, C]
GCCCTCCCCACTTTGCAGCCTGGGTGCTGTGGCAGGAGCCTCCCTTTGGGGCTAGGGT
GCTGCCATTGGAGCCACCCATTGGGGCTGGGTGCTATGGTGGAGCCTCCACTT

F08P200000000000

	TTGGGGCCTGGGTGTCGTGTCAGCACCGCATCTCACCCATTGCTGGGCTCTGAGAT TGAATGGTGGCGTTACATGGTCTTACATGCATTACTGAACCTTCTA AACGACTCTTACCCATGGCATATACATAGTCACGTACTACATACCTGTACATGTTAATAT
14932	GTGCTGCAGTGGCGCCCCCCCCACTTTGCAGCCTGGGTGCTGTGGGGAGCCTCCCT TTTGGGCTAGGGTGCCTGCCATTGGAGCCACCCATTGGGGCCTGGGTGCTATGGTG GGAGCCTCCCACCTTGGGCCTGGGTGCTCAGCACCAGCATCTCACCCATTG CTGGCCTCTGAGATTGAATGGTGGCGTTACATGGTCTTACATGCATTAA CTGAACCTTCTAAACGACTCTTACCCATGGCATATACATAGTCACGTACTACATACCT [G, A] TACATGTTAATATTGATTCTTCTTAAATTGTCACCTCATGTGCTCAGTGCTTATAGAC CAGAGATAGGTTTGAGCTCAGACACCAGGGTTTCAGTATTGCAAATTCTCTCAAAG TAAAGTCTTGCAGAAGAAATATGTGGAGTGGTGTCACTAAACATGATTCCCCG CCTCCCTAACCTCAGGGGTCAAGCCTAACAGACAGCATTGATCCTACCCGTACTGACCGGGCCC CTTCCCTTGCTACAAGTGTGATGGCAGGCATGACACTCCTGTCCTGGCAGGGCATGGC
16272	TATAGACGTTATCAGTACATTATAATTTCAGGCAAATGATGGTGGCAGAACCTCCCA AGGTCTCAGGGGCATTGGGATTAACCCATTCCAATTGCAAGATGGGTGCTGTAACC TGTGCCAGCACCTCTTGAGATGCAATGTGCTTGACCGGTCTGGATCTTAAAATG CAGATTCTAAATGCAAGCAAATCTGAGGTGGTCCAAGATTCTGAGCTCCAGGTGATGCTG ATACTTCAGATCTGGGGACACTGGGAAGAAAAGCCTTAGAGGAGCCCCCTGCCTCCTC [C, G] CATGCACACACACAAGGAGAATCCCAGTGGATTGACTCTGGCTTTTTAGTTCTTGC TGACATGATGCTGACTGCAGGAAAGGAGAGAAATGGGAGGCTGCAGTCATGCTG GAAAATAGCTTGTGAGACTAGCTAGTGGCAGGTAGGTGATGGAAAGATGAACTTAA ACAACCTTGGTCTAGGGTCAATTGCACTGTTCAAGCAGCTGGACAGGTAACCTCA CTCTGGAACCCGTGGCTCCTCCCTGGCTTGCTGTAGGTGGTTAAATTCTGAAAGAG
16945	CCACCGTGGCTCCCTCTGGTGCCTATCCCATCTGTCCCTAGGCCAGCCTG TTTGGGATGAGCATTGCTGCATTGGTGAGCTGTTGGAGTCTTGTGTTCTTAT CCTGAACAGGGAAAGTCACTGTCTTGTCTTGTCTCCACTGCTCCAGCAG CCCTCCACACTGTACCAAGTAGTGCACGTGCTGTGCCCTTGGTATTTGAGATCATAGT TGACAATTAAATTGGCCCTGAAAAGTTCTGTGACCCAGGAAATGAGCATTATGAGTT [C, T] ACAGAAACCCATTATTTCTCTCTTAATTAGCATTACTTGTCTAACTACTTTATT TATTCTCTGTTGCTAAATTATCTATACCTGTAGGAAACTCCCACCCCTGTAATGAA GACATCAGGCTGTGCATTGTAATGGGCTCAATTCTATTTCGGGAGTTGGCAGC ACAGATCTGCCAAGTCCCAATCATCTGTTGATTTACCCCTACACCCGTGGGTTGTTG CTTGTCTCCATTGGATGGAAGTAATGTCGCTTGTGTCAGGCAGGCTAACAA
17065	CCTTGAACAGGGAAAGTCACTGTCTTGTCTTGTGCCCTCCACTGCTCCAGGCCAG CCCTCCACACTGTACCAAGTAGTGCACGTGCTGTGCCCTTGGTATTTGAGATCATAGT TGACAATTAAATTGGCCCTGAAAAGTTCTGTGACCCAGGAAATGAGCATTATGAGTT CACAGAAACCCATTATTTCTCTCTTAATTAGCATTACTTGTCTAACTACTTTATT TTATTCTCTGTTGCTAAATTATCTATACCTGTAGGAAACTCCCACCCCTGTAATGA [A, G] GACATCAGGCTGTGCATTGTAATGGGCTCAATTCTATTTCGGGAGTTGGCAGC ACAGATCTGCCAAGTCCCAATCATCTGTTGATTTACCCCTACACCCGTGGGTTGTTG CTTGTCTCCATTGGATGGAAGTAATGTCGCTTGTGTCAGGCAGGCTAACAA GGCCAATGAGTGGCTCTACTCTCAGGCCTGCCAACGGCCATTGTCCTGTGCC TCCATGGCTGTGGCTCTGCCACTGGCTCTGGCTTGTCTTCACCAGGCCACCTGGG
17442	CCAATCATCTGCTTGATTTATCCCCCTACACCTGTGGTTGCTTGTCTCCATT GGATGGAAGTAAATGTCGTCCTTGTGTCAGGCCAGGCTCAACAGGCCAAATGAGTGGGC TCTACTCTCAGGCCTGCCAACGCCAGGCCATTGTCCTCTGCCCTCATGGCTGTGGTCT CTGCCACTGGCTCTGGCTTGTCTGTCACAGGCCACCTGGGAGGTGGGAGCATACTGG AACTAGACATGGAGGATGTGGGAGGATATGGGCCAGTGTCTGAGCAGGCCACCGAG [A, G] ACACTGTGGTGGGTGCTGGCACATTGGTGTGGGGAGGAAGTGTGGCCAGGTGGCTGA GAAGCCATCTGTCACCAGGCCCTGCCCTCTTGTGATGGTAGGCCATCCTTGGGCATT CCCTCAGTCAGGAAGGTCTGGAACAAGAGAAACCAATGCTTCTCTTAATAAAAAT CAGCCTGTTTACTCCTGCCAGGAGTGTGCTTGTGAGGAGTGAAGAATGAGTGTG AGTGGCCTGCGGGCTGAGGTCTTCCCTCAATCACAGGGTGAGTTTCACTTGTG

17475	GTGGGTTGTTGCTTTGCTTCCCATTGGATGGAAGTAAATGTCGCCTTGTCAGGCA GGCTCTAACAGGCCAATGAGTGGCTACTCTCAGGCCCTGCCAGGCCATT GTCCTCTGCCCTCATGGCTGGTCTGCCACTGCCCTGGCTTTGTCTGTCACC AGCCACCTGGGAGGTGGAGCATACTGGAACTAGACATGGAGGATGTGGGAGGATATGGC CCAGTGCTCTGAGCAGGCGACACCGAGAACACTGTGGTGGTGCACATTGGTGGT [C, G] GGGGAGGAAGTGTGGCCAGGTGGCTGAGAAGCCATCTGTCACCAGCCTGCCCTCTCT TGATGGTAGCCATCCTTGGGCATTCCCTCAGTCAGGAAGGTCTGGAACAAGAGAAA CCCAATGCTTTCCCTAATAAAAATCAGCCTGTTTACTCTGCCAGGAGTGTG TCTTGGCAGAGGTGAAGAATGAGTGTGAGTGGCCTGCCAGGAGTCTCCCTCAATC ACAGGGTGAGTTCAGTTGATCTGCACAGGGTTGGGAGAGCTGGTCTGGT 17844 AGCCATCCTTGGGCATTCCCTCAGTCAGGAAGGTCTGGAACAAGAGAAACCCAATGT CTTCCCTCCTAATAAAAATCAGCCTGTTTACTCTGCCAGGAGTGTGCTTGGCA GAGGTGAAGAATGAGTGTGAGTGGCCTGCCAGGAGTCTCCCTCAATCACAGGTG AGTTCACTGTTGATCTGCACAGGGTTGGGAGAGCTGGTCTGGTCTTGGT TGGTTAGGAGACTCTGAGAGCATTGTCTCCCTGGTCGGTGGGACCGGGCTAAGGTAGC [A, C] CCTGCTACACTGCTGATGTTGCTAGACACTGAGCCCTGGCTTTCTTCTTGGT CCAAGAGGGCCTGGTGCAATCAAACCCCTCTGGAGGGCTTAGCTGGAGACGGAAAGC TGCCATTGTTGCTTTGTTAAATACTTGAAGGTTAAGGTTGTGTTATTGGATCT AGATTGAAAATGTTGATTTCTTTAAGAGTTGAGAACATGAAAGTCATATTCTATT TCTTGCAAAAGCCCTTCCAGAGAACATCAGTGAGACCACAGTGAGTCAGCTG 17929 TGTTTACTCCTGCCAGGAGTGTGCTTGGCAGAGGTGAAGAATGAGTGTGAGTGGC CTGGGGGCTGAGGTCTTCCCTCAATCACAGGGTGAAGTTCACTGTTGATCTGCACAGGG GTTGGGGTGGGAGAGCTGGTGTGGCTGGCTGGTCTGGTCTGGTCTGGAGACTCTGAGAGCATTG TCTTCCCTGGTGGTGGGACCGGGCTAAGGTAGCCCTGTCACCTGCTGGTCTGGT TCTAGACACTGAGCCCTGGCTTTCTTCCCTGGTCTGGCTTCAAGAGGGCTGGTCAAATC [A, G] AAACCCCTCTGGAGGGCTAGCTGGAGACCGAAGCTGCCATTGTTGCTTTGTTAAAATA CTTGAAGGTTAAGGTTGTTGTTATGGATCTAGATTGAAAATGTTGATTTTC TTTTAAGAGTTGAGAACATGAAAGTCATATTCTATTCTTGCAAAGCCCTTCCAGAGAA TCAGTGAGACCACAGTGAGTGTGATGAGCTGACAGAACGCGCCCCACCTGTGAG GGAGTTGGCCTAGCCTCAGAGGTGACAGACGCCCTCAGCACAAACCCACGCTTCAGCCCCA 18283 TAAAATACTTGAAGGTTAAGGTTGTTGTTATTGGATCTAGATTGAAAATGTTG ATTTTCTTTTAAGAGTTGAGAACATGAAAGTCATATTCTATTCTTGCAAAGCCCTTTC CAGAGAACATCAGTGAGACCACAGTGAGTGTGATGAGCTGACAGAACGCCCCCTCCCCAC CTGTGAGGGAGTGGCCTAGCCTCAGAGGTGACAGACGCCCTCAGCACAAACCCACGCTTC AGCCCCAGCCAGGGGCTGGGCCCCCTGAAGCATGGCCTGCTTTTCAAGAGGAGTCTCTT [C, -] CCCTGCTCAGGCTGAAAGTCTCAGTGCTCTGGTGGCTGCTGGCTGGCAGGGCT AGCTGCTGGTATAGGCAGGCTGATGTCAGGCCCTCTAGGCTCTGGAGAAATGGCTG CTGTCCTCCCTCCCCACATAGAACCCCTGTTAACCTCACCTGTTGTTGTTGCT ACTTCTCCCTCAGGATGTTGTTAAACACCCACAATTGGTTTCTGTTGGG CTAAATCACTTGCCTTGCCTGCTGCCCTAAGGCATCCCCGGCCCTGCCCTTGC 18540 TGGGCCCCCTGAAGCATGGCCTGCTTTTCAGAGGACGCTCTTCCCTGCTCAGGCTGAA AGTCCTCAGTGCTCTGGTGGCTGCTGGCTGGCAGGGCTAGCTGCTGGTATAGGC AGGCTGATGTCAGGCCCTCTAGGCTCTGGAGAAATGGCTGCTGTCCTCCCTCCCCAC CCATAGAACCCCTGTTAACCTCACCTGTTGTTGCTGCACTTCTCCCTCCAGGA TGTTGTTGTTAAAACCCACAATTGGTTTCTGTTGGGCTAAATCACTTGCCT [C, G] TTGCCTGCTGCCGCTAACGGCATCCCCGGCCCTGCCCTGCTTCAGTGACCCCTCAA CTCAGAGGGCCCCGGAGGCTAACATCTGTTGTTCCCTAGCCAGCTTGGAGCTAAGGGA ATGCCCTCTCCAGCCTTAGGTTGCAAGGAGTAAAATCAGGCAATATAACAATACCA TTTCAGGGTTGTCATGAGCACTAAGATGGTACATGGAGGTGCCGGCACAGATTGCCTCC ACAGAACACAACAGACAGAGCTGGGTTGTTGTCATCCCAGAACCTCAGTCAGTG 18592 AGGCTGAAAGTCCTCAGTGCTCTGGTGGCTGCTGGCTGGCAGGGCTAGCTGCTG GTATAGGCAGGCTGATGTCAGGCCCTCTAGGCTCTGGAGAAATGGCTGCTGCTC
-------	---

	CTCCCCCACCATAGAACCCCTGTTAACTCTCACCTTGTGTTCATGTTGCCACTTCTC CTCAGGATGTTGTTAAAACCCCACAATTGGTTTCTGCTGGGGCTAAATCA CTTGCCCTTGCCCTGCTGCCCTAAGGCATCCCCGGCCCTGCCCTTGCTTCAGTG [C, T] ACCCCTCAACTCAGAGGGCCCCGGAGGCTAAAATCTGTTGTTCCCTAGCCAGCTTGGAG CTAAGGAATGCCCTCTCAGCCTTAGGTTGCCCCACAGTGAATAACAGGAATATAA CAATACCATTTCAGGGTTGCTGAGCACTAAGATGGTACATGAGGTGCCGGCACAGA TTGCTCCACAGAACACAACAGACAGAGCTGTTGTTGCTATCCCAGAACCTC AGTCAGTGGCTGTCAGAACAGACTGTGCGCCCTCCTGAGCCACAGTCTGATGTCAACT
18616	GGTGGCCTGCTGGCTGGCAGGGCTAGCTGGTATAGGCAGGCTGATGTGACGG CTCTCTAGGCTCTGGAGAAATGGCTGCTGTCCTCCCTCCCCACCATAGAACCTGTTA ACTCTCACCTGTTGTTCATGTTGCCACTTCTCCAGGATTTGTTGTTAAA ACCCCAAAATTGGTTTCTGTTGGGGCTAAATCACTTGCCTCTGCCTGTCGCC CCTAAGGCATCCCCGGCCCTGCCCTTGCTCAAGTGCACCCCTCAACTCAGAGGGCCCCGG [A, G] GGCTAAAATCTGTTGTTCCCTAGCCAGCTTGGAGCTAAGGAATGCCCTCTCCAGCC TTTAGGTTGCCACGAGTGAATAACAGGAATATAACAATACCATTTCAGGGTTGTCAT GAGCACTAAGATGGTACATGAGGTGCCGGCACAGATTGCCCTCACAGAACACAAGAC AGAGCTGTTGTTGTTGTCATCCCAGAACCTCAGTCAGTGGCTGTCAGAACAGACTG TGCGCCCTCCTGAGCCACAGTCTGATGTGTCACCTCAGTCAGTGCAGTTCTGTCACT
20491	GGCTGAGGCAAGGAGAACATCGCTAAACCCAGGAGGGAGGTTGCACTGAGCCAAGATCAT ACCACTGCACTCCAGCCTGGCAACAGAGTGAGACTGTCATCAATAAAACAAAGTAGGC TCTCTGCTTCATGCTTGAGTGTTCATGCCCTGGCAGTATGGCTTAGGATCATATCTTGTG TCCTGAAGCAGAAATTCCCATTGACTTTCTCTTACCTAGAGGGTCTGAGCC CTGGGCTGGCTGCCAATCGGACATCTGGTGACTIONTAAATCTTAGTAATCAACAGACA [C, T] CCACTGAGCACCTAGCTGTTGCTGGCCCTGACTAAGGCTGGCTAAGTGGTGAAGAG AAATGGGATTGTTGATTCTATCCTTGAGGCTTGAGGGCATTGGGGTGGGGGGAGG AGGAGCAATCAGCTGCTTCAGAATGGATCCAAGTTAGCAGAACAGAACACTTACATTAG TTAATGATCTTTCTAGTCAGTCTGATATAATGTCGAATTAAAGATCTCAACTTGTGCTAA AGAAAAGTGGGCATATTATTAAAGTAATAAGAACAGAGTACATCTTTATTAGAAAGAAG AG
22023	TGTGTGTAGAGATCACACGGTAACAGAGCAAGCAAGGGTGAAGACTGAGAGGTTCCAGGCTC TATTTAAAGCCAGCTCTGGGAACTAGTAGGGTAGGACTCACTCATTGCTGCAAGGA TGGCACCAAGCCACTCCTAAGGGATCCAACCTCATGACTCAGAACCTCATTAGGCCTC ACCCCCAACACTGAGGGTCAAATTGGCATTAGGTTGGGGGGACAAACATCCAAAC CATAGCACCAGTTGTCAGTAATTCTTAGGAACAGAACACTTTATGACCATGCTGACT [A, G] GAACAAAATTATCTGTGATTGTTATCCATTCCAGATGAGAATGGTATATATAATTAAA TCTGAATTATTCAAATGACTGTTCTGTTACAAGTAAGATGATCATGAACTGCAC TGTACAAGAAATTCTTATCTGATATCTCACCCTGGGATTATGAGAAAAGAAGAATCA TCACAAACAGCTTAAGAATGTGGTGAGCACAATGGTGAGCGGAAATGCAAGAACAG ATATTAGTTAGCAGCACAGGCCAACCGTGGGTGACGTGAGAATTAGCACAGAAATG AG
22248	GACAAACATCCAAACCATAGCACCGAGTTGCCAGTAATTCTTAGGAACAGAACACTTTT ATGACCATGCTGACTAGAACAAAATTATCTGTGATTGTTATCCATTCCAGATGAGAATG GTATATATAATTAAATCTGAATTATTCAAATGACTGTTCTGTTACAAGTAAAGA TGATCATGAACTGCACTGTAAGAACATTCTTATCTGATATCTCACCCTGGGATTATGAG AAAGAAGAAAGAACATCACAAACAGCTTAAGAATGTGGTGAGCACAATGGTGAGCGGCC [A, G] AATGCAGCACAAAGCATATTAGTAGCAGCACAGGCCAACCGTGGGTGACGTGAGAAT TTAGCACAGAAATGCCCTGGGTGGAAGGTGGGATTGGGAAGGACCTTGGAGGGCAGAGG TACTTGGAGAGGAAGACCAGGATCTGGTGGGAGAGTATTAGAGTATTAAAGGAGGAGT AACCCCTCAGAGTCTAGGTGAGGGTGGAAATAGGGCATATCTGTCAGGAGGGAAAACGG AACAGATTGGTTAGGTGGGTATCTGGGTCTGTGAGCCAGGGATTCATCAGGGACGCTT
23118	TTTGAGTTCTGTCGTATCCTCAGGTTCTCAAGGGCAGAGCCTTATTGGCTCAGCTTGG GGAAATATCTTCCAGATCCATTGCCCTGTCGCCAGAGGCAGGTCCCAGTGGGTGAGGG GCCCTCCAGGGGCTCTGAGGGAGGATGTGGTCAAGCCTGGGTGGCTCTTGTGAAGGA GTGGCAGGAGGTTATTGTGGGTGGAGGACAGTGTGAGGTGAGGCTGAGAGCCAGGCTCAAA CTCTCAGCAAGCACACAGAGAACAGTGAAGCAAGTTGTATAAACATGGGCATTTATG CT

[G, C]
AGTTGCATTTGGATCTCAGAGCAGGGGTGGCCCTGGCAGTAAGGCCTGCCTTGTGC
TGTAAATCTTGCTCCCCTGCTTGTGCTGCCTGCCTCTCCCTGTCTTGTCA
CCTGCCATACCCCTACCTCACCAACCCGCCGTGCTGTGGCTGGCAGCTCAGAAGCCCC
ACTTATCCATTCTTAGGATGCCCTGCAGACAGGCTGAAAACAGGCTTGGCTCCACAG
GCCGACTTGCATTTGCCAGTCACCTACCCGGTCCCTCCATCCTGGTGCAGTGCC

23789 GCCACAAGTTGGGTATGGTGCCTAATGGGGTGTAGTAACGAAGGCTCATGCTCC
ATCCTCAGGAATGCCATTACAGAAGGGTTGAGACTGGAAATTGGATCTCTGCTCT
GTCTTGACCTTCACCAGGGAGTATGCAGCAAGGAGGCCCTTGCAAAATGCCAGCCCC
TCAATCTGGACTTCCAGACTCCAGAACGTGAGCCAATACATTCTGTTATTATAAA
GTACCCAGTCTCAGTATTCTGTTATAGCAGCAGAAAATGGACTAAGGCAGCTGTGTC
[C, A]
CGCCTGACCCCTCAAACTCACAAAGGGGAGCAGGCCCTGGTGCCTAGTTGCCCC
GACTCCAGAGATAACATATCCTGTGGCTGTAGGGAGCTCCTTAGTGCAGCTGCTTGAGGT
TTAGCTGGAATCATTCTGGTAAGAAAGAGGGGTTACATGGGAGGGGAGTCATGGCTTG
CCAGATGCCCTCTTAGAAGGTCCACCAACCCCTGCCAAATCCAGCAAGCAAATAGTTGA
GCTGCTGTGGGATAATTGGCCTGTACATGGAAAGACAAGATGAGATAGATGCAC
CCCC

23800 GGTGATGGTGCCTAATGGGGTGTAGTAACGAAGGCTCCATGCTCCATCCTCAGGAA
TGCGGATTACAGAAGGGCTTGAGACTGGAAATTGGATCTCTGCTCTGTCTTGACCT
TTCACCAGGGAGTATGCAGCAAGGAGGCCCTTGCAAAATGCCAGCCCCCATTTGGA
CTTCCCAGACTCAGAACGTGAGCCAATACATTCTGTTATTATAAAAGTACCCAGTCT
CAGGTATTCTGTTATAGCAGCAGAAAATGGACTAAGGCAGCTGTCCCCGCC
[T, A]
TCAAACACTAAAGGGGAGCAGGCCCTGGTGCCTAGTTGCTGGCCCTGTGACTCCAGAGA
TACATATCCTGTGGCTGTAGGGAGCTCCTTAGTGCAGCTGCTTGAGGTTAGCTGGAAT
CATTCTGGTAAGAAAGAGGGGTTACATGGGAGGGGAGTCATGGCTGACCAGATGCC
TTCTAGAAGGTCCACCAACCCCTGCCAAATCCAGCAAGCAAATAGTTGAGCTGCTG
ATAATTGGCCTGTACATGGAAAGACAAGATGAGATAGATGCAC
CCCCACCTCCCC

23930 GAGTATGCAGCAAGGAGGCCCTTGCAAAATGCCAGCCCCCTCAATCTGGACTTCCCAGAC
TCCAGAACTGTGAGCCAATACATTCTGTTATTAAAGTACCCAGTCTCAGGTATTCT
GTTATAGCAGCAGAAAATGGACTAAGGAGCTGTCGCCCCGCCGACCTCAAAC
CTAAAGGGGAGCAGGCCCTGGTGCCTAGTTGTCAGCTGTCGCCCCACCTCCCC
TGTGGCTGTAGGGAGCTCCTTAGTGCAGCTGCTTGAGGTTAGCTGGAATATTCTGG
[T, A]
AAGAAAGAGGGGTTACATGGGAGGGGAGTCATGGCTTGACCAGATGCCCTTCTAGAAG
GTCCACCACCTGCCAAATCCAGCAAGCAAATAGTTGAGCTGCTGTGGGATAATTGGC
CTGTCATCATGGAAAGACAAGATGAGATAGATGCAC
CTGCTTGTCCAGCTAGATACAAAGTCTATTGCAATTAAAAATTGTTTTGTTG
ATATCTCTTGTAGCCAAGAGTTAGAGAGGGCTAGGGAACAGGGACATCTCTAGG

24159 GATACATATCCTGTGGCTGTAGGGAGCTCCTTAGTGCAGCTGCTTGAGGTTAGCTGGA
ATCATCTGGTAAAGAAAGAGGGGTTACATGGGAGGGGAGTCATGGCTTGACCAGATGCC
TCTCTTAGAAGGCTGCCACCCCTGCCAAATCCAGCAAGCAAATAGTTGAGCTGCTG
GGATAATTGGCTGTACATGGAAAGACAAGATGAGATAGATGCAC
CTCCCCACCTCCCCAGTCTTATTGCAATTAAAAATTG
[T, G]
TTTTGTTGTGATATCTCTTCTGTGTAGCCAAGAGTTAGAGAGGGCTAGGGAACAGGG
ACATCTCTAGGTGAGGATGAAAGGGGAGTCATCTGGAGCTGCTGGGCTGGAAGTCT
GAATGGCTCCTTATTCTCTTATAAGAATAAGAGGAAGATCATGCCACTGCACTC
TAGCTGGTACAGAGCGACAGAGCAAGACTGTGCTCAAAT

26339 GCACCTCTTCAGGCTGGGTGCTATGCTGATTGCTGGGGGACAACCA
CAGGATGCTGTTG
TGGTGGAAATTGGCAAGTGGACAGCAGCTACCA
GAGATACTGAGTGCCTTGC
TCTCAGCTCTCACTGCAGTCTCATAGACACTACCC
TACCTCATTGCA
GAGTGA
GGAGGCTCTCAGTCTGGCTGCTGAGCCTACTCT
CCCACCTGC
CATCCAGTGA
GGATACTGAGCTGGCATCGGT
CTGGC
CATGGAAGGC
GAGTGTGGGCTGCC
AGGCAAGCC
CATCCT
CTGGCT
CACTGACT
TTGCTGG
GGGAAGAGAA
CTGGCACC
ACTGTT
ACATTAGTT
CTGTG

	CCTGTGACACCCAGCTGATACCTCTGTACGAAGGGACACCCTCCCCATATGTGGGAG TAACAGGGCACCTCATTGGAGAACCTGCCAGCCCCTGCACACTGCAGAGGTTGTCT
26508	GATGAGGAAACTGAAGCTCTGGAGGTTAATGCCATGTATATGGTACCCAGTGCCTGGGG GTCTGGGTGCAGGTGAGCCCTTGTGTCCTCGTCACTGCAAGCCCAGTGGCCCCATT TCCATGTCAACCGGGAGGCTTCTCAGTCCTGGCTGCTTGAGCCTACTCTTCCCACCTGCAT CCAGTGAGTCTGGATACTGAGCTGGCATCGTCCTCATGGAAGGCAGTGTGGCCTGC CCAAGCCATCCTCTGGCTCCACTGACTTGTGGAAAGAGAAACTGGCACCCTGTTACA [T, G] TAGTTCTGTGCCTGTGACACCCAGCTGATACCTCTGTACGAAGGGACACCCTCCCC ATATGTGGGAGTAACAGGGCACCCCTCATGGAGAACCTGCCAGCCCCTGCACACTGCA GAGGTTTGTCTGAGGCAGCTGGCACCCTGGTGCAGAGCACTGGCAGGCCACTGGGGC AAGAGTTGTAAGGTGTTAAGATGCATGATTAACCCAGTGGTCCCAAACCTGTCCATAC ATTAGAACCACTGGGGTGGCTTAAAAATGCTGATGCCTGTGTCCCACCCCCAGAGATTG GATTTAATTGGTTAGGGTATGGCTATACTCTGGATTATTTAAATGTCCCATTGAGA
26570	CTGGGGTGCAGGTGAGCCCTTGTGTCCTCGTCACTGCAAGCCCAGTGGCCCCATTCTC CATGTCACCGGGAGGCTTCTCAGTCCTGGCTGCTTGAGCCTACTCTTCCCACCTGCATCC AGTGAGTTCTGGATACTGAGCTGGCATCGTCCTCATGGAAGGCAGTGTGGCCTGC AAGCCATCCTCTGGCTCCACTGACTTGTGGAAAGAGAAACTGGCACCCTGTTACATT AGTTCTGTGCCTGTGACACCCAGCTGATACCTCTGTACGAAGGGACACCCTCCCCA [T, A] ATGTGGGAGTAACAGGGCACCCCTCATGGAGAACCTGCCAGCCCCTGCACACTGCA GGTTTGTCTGAGGCAGCTGGCACCCTGGTGCAGAGCACTGGCAGGCCACTGGGGCAA GAGTTTGTAAAGGTGTTAAGATGCATGATTAACCCAGTGGTCCCAAACCTGTCCATACAT TAGAACCACTGGGGTGGCTTAAAAATGCTGATGCCTGTGTCCCACCCCCAGAGATTG GATTTAATTGGTTAGGGTATGGCTATACTCTGGATTATTTAAATGTCCCATTGAGA ACTGCTGGTTA
26582	TGAGCCCCCTTGTGTCCTCGTCACTGCAAGCCCAGTGGCCCCATTCTCCATGTCACCGGG AGGCTTCTCAGTCCTGGCTGCTTGAGCCTACTCTTCCCACCTGCATCCAGTGA GTTCTGGGAGTAACAGGGCACCCCTCATGGAGAACCTGCCAGCCCCTGCACACTG GGCTCCACTGACTTGTGGAAAGAGAAACTGGCACCCTGTTACATTAGTTCTGTGCC TGTGACACCCAGCTGATACCTCTGTACGAAGGGACACCCTCCCCATATGTGGGAGTA [A, G] CAGGGCACCCCTCATGGAGAACCTGCCAGCCCCTGGCACCTGCAGAGGTTGTCTGAG GCAGCTGGGACCATGGTGCAGAGCACTGGCAGGCCACTGGGCAAGAGTTGTAAGG TGTAAAGATGCATGATTAACCCAGTGGTCCCAAACCTGTCCATACATTAGAACCACTGG GGTGGCTTAAAAATGCTGATGCCTGTGTCCCACCCCCAGAGATTGATTTAAATTGG TTAGGGTATGGCTATACTCTGGATTATTTAAATGTCCCATTGAGA ACTGCTGGTTA
26693	GAGTTCTGGATACTGAGCTGGCATCGTCCTCATGGAAGGCAGTGTGGGCCCTGCCAAG CCATCCTCTGGCTCCACTGACTTGTGGAGAGAAACTGGCACCCTGTTACATTAGT TTCTGTGCCTGTGACACCCAGCTGATACCTCTGTACGAAGGGACACCCTCCCCATAT GTGGGAGTAACAGGGCACCCCTCATGGAGAACCTGCCAGCCCCTGGCACCTGCAGAGG TTTGTCTGAGGCAGCTGGCACCCTGGTGCAGAGCACTGGCAGGCCACTGGGGCAAGA [G, A] TTTGTAAAGGTGTTAAGATGCATGATTAACCCAGTGGTCCCAAACCTGTCCATACATTAG AACCACTGGGGTGGCTTAAAAATGCTGATGCCTGTGTCCCACCCCCAGAGATTGAT TTAATTGGTTAGGGTATGGCTATACTCTGGATTATTTAAATGTCCCATTGAGA ACTGCTGGTTAGCCTATGAGAGAAAGTGTGGCAAATGCCACTCTGTCTCATTGCTTT CTCAGCACCTACTCCTCAAGGGAAATAACTGATTGAGGCTGCAGGGACAAAGCTCC GAGG
26884	AGGGCACCCCTCATGGAGAACCTGCCAGCCCCTGGCACCTGCAGAGGTTGTCTGAGG CAGCTGGGACCATGGTGCAGAGCACTGCCAGGCCACTGGGCAAGAGTTGTAA GTTAAGATGCATGATTAACCCAGTGGTCCCAAACCTGTCCATACATTAGAACCACTGG GTGGCTCAAAAATGCTGATGCCTGTGTCCCACCCCCAGAGATTGATTTAAATTGG TAGGGTATGGCTATACTCTGGATTATTTAAATGTCCCATTGAGA ACTGCTGGGTTAG [C, T] CTATGAGAGAAAGTGTGGGAAATGCCACTTCTGTCTCATTGTCTTCTCAGCACCTA CTCCTCAAGGGAAATAACTGATTGAGGCTGCAGGGACAAAGCTCCCTGTGCC CAGGCACAAGGCCCTCTGGGAGGTGTGGCTAAGGCTGGCGTGTGATTCTGATGTG GCACGTGTGGGCAGGTATTCTCTACTTGAGGAGTGCATTGAGCATTGAGC CCCTCATTCTTCTCACGACAATCTTATAGGTAGCACCTTCAATCTCCTTCA GACG

		TCCTGGGAGGTGTGGTGGCTAAGGCTGGCGTATTCTGATGTGGCACGTGTGGGCAG GTATTCTACTTAGGAGTGACATTGCATGCCCTGCATGCCCTCATCCTTCT CACGACAATCTTATAGTAGCACCTTCATCCTCTCAGACGAGGAACACTGAAGTTC ATGGTGCATCCTACGTGAGGAACAGAAAGAGGACAGGAAATAACTGGATTTCCTTGG GATTCTCAGATGGCCAGGTCTAAGTAACACCAATCTAGCTCTGCTGACCACTGGGG [C, T] CTTTCTCCTTTGACTCTGTTAAAAGAAAATTGAAAAACGGTCTTATTGTGCCTTAA AGCCTTTTAATTAAATATAACTCATTAACTTAAACTACTTTAAGTTCCATTAAATA TAAGTGTATAGTGGTACAATGAAAGTGCCTCTAATCAAAGTGTATGGGATTAC TCCCTGTACAAAAAGCCTGTTGGAGGCCAACCAATGATTATTCAAGACAGCAATCCAAA ATCACCAAGACCCCTGAGTGAGGCACACATGGTGGAGGTTCATGAGTGTGGTAGGAGTCGG
	27339	CTAAGGCTGGCGTGTGGCACGTGTGGGCAGGTATTCTACTTGAGGA GTGACATTGCATGCCCTGCATGCCCTCATCCTTCTCAGACAACTCTATAGGTA GCACCTTCAATCTCCTCTCAGACGAGGAACACTGAAGTTCATGGTGCATCCTACGTGAG GAACAGAAAGAGGACAGGAAATAAAACTGGATTTCCTGGATTCAGATGGCCAGG TCCTAAGTAAACACCAATCTAGCTCTGCTGACCACTGGGGCCTTCTCCTTTGACTC [A, T] GTTGAAAAGAAAATTGAAAAACGGTCTTATTGTGCCTTAAAGCCTTTAAATTAAATAT AACTCATTAAATTAAACTACTTAAAGTTCATTAAATATAAGTGTATAGTGGTACA ATGAAAGTGCCTCTAATCAAAGTGTATGGGATTACCTCCCTGTACAAAAGCCTG TGGGAGGCCAACCAATGATTATTCAAGACAGCAATCCAAAATCACCAGACCCGTGAGTGA GGCACACATGGTGGAGGTTCATGAGTGTGGTAGGAGTCGGAAAGTTCCTCTGGGGCTGT
	27542	AAACTGGATTTCTGGGATTCTCAGATGGGCCAGGTCTAAGTAAACACCAATCTAGC TCTGCTGACCACTGGGGCCTTCTCCTCTTACTCTGTTGTTAAAAGAAAATTGAAAAA CGGTCTATTGTGCCTTAAAGCCTTTAAATTAAATATAACTCATTAAATTAAACTACT TTAAGTCCATTAAATATAAGTGTATAGTGGTACAATGAAAGTGCCTCTAATCAA GTGTGTATGGGATTACCTCCCTGTACAAAAGCCTGTTGGAGGCCAACCAATGATT [G, A] TTCAGACAGCAATCCAAAATCACCAGACCCCTGAGTGAGGCACACATGGTGGAGGTTCATG AGTGTGGTAGGAGTCGGAGTTCTCTGGGGCTGGCAGATTGCTGAGTGAAGGAGGGGGGTGTG GAGAGGGCTTAGCATGGAGCTGGCTGGTAAATTGCTGAAATGGAAGCTGCTACTG GGATGCTACTGCCATCCCTAGGACOTCGCTGCTTCCTGCTAGTTCTACTGCTGGT CCACAGCTACAAAGTAGGGAGATGACAGTGAAGAGAGCTCCCTGGTGGCAGGAGG
	28586	TTGCAAGCTAGGACCTGATGGGAAGGCATCCACAAAGCTGAGCCACAGAGGCTGTGAGGG ATGGGAGTGGAAAGTGAAGAGGGGCCAGAGGAGATGCTCAGGAGGACAGAGGGAAACACTAG CTAGCAGGAAGATCCAAGGGGAGGGGACCTATTGCTGTGTCAGATGACAGTTCTGGTTG GAAGTCTGGATAAGGGATCTCAAGTGTCCCTTGGAGAAGAGGGTGTGCCTGACCTT AAGCACTGGCCACTTGGGTGTTTCAGCTTACCCATCAGACGCCACTTGCACCCAGT [A, C] CTGCCCCCAGCCGGCCCTTCCCAGCTGCTCACCTCTCAGAGGCTCCAGCCTGATCAA TCACCGCTGGCCCCACCATGACTCTGGCACATTTCGATCTTATGTCAGACCGTCTGTA TCTGTGACTCCCTAATTCTGTGCAAACAAAGAATGAAAATAGACTCAGACATGAGGAC TGTACTGGAGGGCACACTTCTCTTGTCTTTAATTCTAGGCACAGGTTATT CTAAACCTCATCTGGGCTTGCAAGTGGCAGAAAGAAAAGTAGCAGATTGGAATATCATG
	28591	AGCTAGGACCTGATGGGAAGGCATCCACAAAGCTGAGCCACAGAGGCTGTGAGGGATGG AGTGGAAAGTGAAGAGGGGCCAGAGGAGATGCTCAGGAGGACAGAGGGAAACACTAGCTAGC AGGAAGATCCAAGGGGAGGGACCTATTGCTGTGTCAGATGACAGTTCTGGTTGGAAGT CTTGGATTAAGGGATCTCAAGTGTCCCTTGGAGAAGAGGGTGTGCCTGACCTTAAGCA CTGGCCACTTGGGTGTTTCAGCTTACCCATCAGACGCCACTTGCACCCAGTCTGC [C, T] CCCAGCCGGCCCTTCCCAGCTGCTCACCTCTCAGAGGCTCCAGCCTGATCAATCACC GCTGGCCCCACCATGACTCTGGCACATTTCGATCTTATGTCAGACCGTCTGTATCTGT GACTCCCTAATTCTGTGCAAACAAAGAATGAAAATAGACTCAGACATGAGGACTGTAC TGGAGGGCACACTTCTCTTGTCTTTAATTCTAGGCACAGGTTATTCTAAA CCTCATCTGGGCTTGCAAGTGGCAGAAAGAAAAGTAGCAGATTGGAATATCATGTTAAA
	28599	CCTGATGGGAAGGCATCCACAAAGCTGAGCCACAGAGGCTGTGAGGGATGGAGTGGAG TGAAGAGGGGCCAGAGGAGATGCTCAGGAGGACAGAGGGAAACACTAGCTAGCAGGAAGAT CCAAGGGAGGGACCTATTGCTGTGTCAGATGACAGTTCTGGTTGGAAGTCTGGATT

		AAGGGATCTTCAAGTGTCCCTTGAGAAGAGGGTGTGCCTGACCTTAAGCACTGGCAC TTGGGTGTTTCAGCTTATCCAATCAGACGCCACTGCACCCAGTCCTGCCAGCC [G, A] GCCCTTCCCAGCTGCTCACCTCTCAGAGGCTCCAGCCTGATCAATCACCCTGGCC CACCATGACTCTGCACATTTCGATCTTATGTCAGACCGTCTGTATCTGTGACTCC AATTCTGTCAAACAAAGAATGAAAATAGACTCAGACATGAGGACTGTACTGGAGGG ACACTTCTCCTTTTGTCTTTAATTCTAGGCACAGGTATTCTAAACCTCATCT TGGCTTGCAGTGGCAGAAAGAAAAGTAGCAGATTGAATATCATGTTAACAGGTGGA
30857		ATAGGCAATAGAGGGGACATCGAGCTTGCTGTGCTATCTCTGTTCAGCCCCAAAG TGCTGGAGACTTGCACTGTTGTTGTTGTTGAGACAGAGTCTTACGC TATCACCCAGGGTGGAGTGCACTGGCGCTCCATTGCAGCCTCTACCTCCCTGGGCTCAGG TGATCCTCCACCTCAGCCTACAAGTATCTGGGACTACAGGTAGGCACCACATGCCA GCTAATTTCATATTTTGTAGAGAGGGGGTTTCACTATGTTGCCAGGCTGGTCTC [A, G] AACTCGTGGGCTCAAAGGAGACTTGCACTTCTGCTTATATGCCATGCCAGCC TCCCCCTCACATCTGGCTTCTGGGAAGATGAGAAAGGCAAGCTCAGCCTGCTGATTG GGCAACTCCTAGGCAGGGCTGGCTGAAAGGTGCAGGGACCCCTGGCCTTATCAAACCTC CTCAGCTATCTAAGCCCTAAAGGTTAGTGTGGCAGCTGCTCCCCCACCTTGAC TGTTCTTAAGGCAGTAAGCCATCTACCAAGGGCTACACACACCTCTTAACCCCCAGA
31503		CCTCGATTAAGTGGATTTCTCAAGAGCAGCACCCCTCGGTGTTTTCATGAGCACTT GCAGCAAGCTCGATAACTGGAGGAAGCAGGGGGTTTAGACCTCCCCAGAATATC CTGTTCTTGCTGGATTATTCAGCTTGGCTTCAAACTAGCCGGTTAGGGTTAATT CTCTCACCTTCTGGCTTGAAAGACCCAGACATGGTGTGCTGAGAAATCCAACA ATAGTTTCTCTGCCTTAACTCAGCCATATAATGAGATAAGTGTGCAAAACTCTT [A, T] CTGTTGCACTGAAAGGGAGCCAGCAGTGAATACATGCTACATAAGGCAGCACTTTA TTTAGCTGTATTGTCAGTCAAGTGAAGATTAAATTGAGAATAGTGTCTGCTAGC AAAAATGAACCTGCTAGAGTCAGTTAAAGAACATCTCAGATATGAAAAACTTAGAAC AGAAAGATTGTTAAGAACATTCAAGAACATCTCAGATATGAAAAACTTAGAAC TTAGATGTCAGAATTTCAGTAGCGATGAATCCATGGCAAAGCTCCATCTCATCTGTAC
	33107	TGCAGAAAATAATTCTCCTTAGACAATGCATCCAGGGCCTGGTGTATTATGTCAAT GAATTTCACTCCTTACATTCTGCTACAGCTTTGAGGGGTTGCTTTTTAAGCACTGGA AAGATGGATTCTATTAGCTCAATAATTGAGGAAGCCGTTGAACCTACCTCC AAAATAATCTGATCGTCTCCCTCTTAGCTCTTCAATGTAATGTTGATGA TGGTGGCACATGTTGGAGGACTGCCTGCTGGACACCATGCTAACGATGGACAAGC [T, -] TATTATTATTCATTTGATCATCACAACACTCTATGGAATGTGCTATTCTGCCTT ACAGATCAACAAACAGAGACTAAGGAAATGTTAAATAATTCAACAAAGGTGACAGAGGCA CAGCTGGCCCCACTCTTAATCCCTGTCAATTGTCACGAATGTTGAGCATTCC TTGGAGGAAGTAGAGTATGTTGAGGACCTCAGAGGTTGAGTCTAGTCTGATGTGGC CACTCTCATGTAAGGTTCAAGTGCAGTCTTCCCTCAGTACATCTTCTCATCT
33671		AGTTGCAGTCTTCCCTCAGTACATCTTCTCATCTGTAATTAAAGGGTTGTT CCCTCTATTAAACAAACTCTGATTACTCTGGTAAATTGCTTATTAAAAATT ACTGGAGCATATCAAATATAGTAAAGACACATATTCTGAGTGTAGCACTGGTTATA TTTGTAAGTGAACATATCTATGTCAGGACACCAAGATGATAATTAGAACATTCCAG CATCCCACAAACATTCTGTCCTGGCATTACATCGCAAAGGTTACTACTCATCT [A, G] TCATCAGAGATTGGTTTGCTTGTGAGATTATAAAATTAAACTGT ACTATTGTTCTGCTTCTTCCCTCAGCGCTATGACAATGAGATTCACTACATTATC ACATGTTGCAAGAGTTTCTTCACTGCACTGAGTGTGTTCACTGATGTTGAGCATT ACAGTTATCTGTCACATTGGTGGACATTGCAATTACATATCATGCTGCATTGCC TTCTTACATGCATTGGTGCACATGAATGACTCTGTTGGACATTACTTAGGA
35045		CTCAGCATA CGGCCAATT TATAAATCTGAATGGACACTTGAAATGAAGTGTCTATTG GTACAGTGTGTTGATGTCGCAATTAGGTCAAGTTAAAATTATAGTGTCAACTCTC TATATCCTTACTGATGCTTTCTACTTGTCTATCAGTTAAAGACAGAGATT TAAATTCTCAACCATTATTGTTGGTAAAGGTTAAATTCTCCTCTAGTCTTGGAGTTCTG GCTTGCATATTAGACTATGCTACTAGGTATGACAAGTTAGAATTGCTATATT [C, T]

	CTGTTAAGTGTCTTCTAATTATGAACCATCCCTTTACTGATAATAATTCT TGCCTACTTTATCTAGCCATGTTCTGGTGAAGTTAATATGGTTATCATTAAA TTCTTACATTCAAGCTTTGTAAACATATATTATGATATGTCTTGTCAGGCAGCAT ATAGTGGATATTGTTCTATTATGCCAACCTGTGTGTTTATTTTATT TTTTGTTTGTGTTGAGACAGACGCTTACTCTGTCAGG
35944	ATAGGTTAAATAAACCCATGTTCTGTTCTATATTCCCTTCTGCCTT CATGTCCTCTTGGATGAGACAGTTGGTACTTCATTCCCTGGTGTAGCACTA ATTTGCCATTGGGACAGTACTAGGACATTAAACACTTAATCTCATTGACCTCC TGATCTTTTAAAAAAATCATATTACTATGTTAGTTCTACAAATATTCTTATCTT ACAGTCATTGTTAGTAGCGAAATGTTAGGTTTAAATGCTT[G, T] TTGGTGCTCATTATTCCTGCATAGCTACATCATCTGAATAATTCTGCCTT TTGCCCTAAAGTTCGCTATAAAGTATTGCTCTAGTGTAAATTGGGCAATGATT TCTCAGGGTTTGTCTAAATATCTGTTACCTCATTATTACCTTATGAAT ACCCATATTTCATTGGATTCTAATGTTTCAAAATTAAAGATGGGGTACTATG CTTATTACCTGGGTGAGCTTACACCAAATCCCAAGACATGCAGTTACCTGTATAGCA
37157	TTGTTTATTTGTTCAATAGGTTGGAGAACAGGTGGTGTGGTACAGGTTT AGTGGTATTGGAGATTGGTGCATCCATCACCTGAGCATTTACAGTGTACCCAAAT GTGAGTCTTTATCGATTCTAGTTATAATGAAATTGAGCATCTTCTCCTATT CCTAAACATATTAGCCATAGTTATTCTAAAGCTTGTGCCTAAGAATTCTAAGATCTGGAT AACATGTGGCTCTGTTCTGGTCTGTTCTGGATTAGCATTGATCCCATTTC [G, A] TGCTATGCCGGTAATTAGACTGGATGCTGGAGATTATATGAAAAATTGAAAGCC TGTGGATCACTTATAGATTCCACAGAGGATTATTTCTGTAGACAGATAGAGT CCTGAAATATCATCTTATCTACTCAAGAATAGGAATAATTGAGAATATGGTCTTAG CAGTAAGTCTGTCAGGGCAGTATTCTGGAAAGGCTAATTGGTCT TTAGTACCATGTACTTCAAAATCTATACTTAGATTATTGAGGCTTTTTTT 5000
37603	AAGAATAGGAATAATTGAGAATATATGGCTTAGCAGTAAGTCTGCTGCATTGTCAGG GCGACTATTCTGGAAAGCCTAATTGTCCTTAGTACCATGTTCAAAACT ATACTTAGATTATTGGAGGCTTTCTGTCAAGGCTACTTTAACTT GTTCTCAGCCTTGGCCTTATGTGTAGCTCAGGCATAATCATATAACTCAAGGGG AAGCCGAAATGTTGAGCTCACTCTTCTGGTTCTTCCAGGGTTCTGACCCCTCA [A, T] TTCTGGCTTGGTAGCCTGCACTCTGATGTTATTCCATCTCAGAGAGACTTC TCTAAGTCTAGAATATTATCTGTTGGCTCTATGAAACAGCAAATGCGAAA GGGAAATGTCAGTGAATATGGGCTCATCTCAATGGACTTCTCTCATAACTTCC TTAAATTCTGGCTGTTGTGCTGGATGCCCTAAAAACTTTTTAATTCCA CTTTATAATTGTTGATAGCAGAAGGATTAGTCTCATACAAGCTACTTTTATGGCACA
39242	TTTTTATTCAACAAATATGATTGAGCATCTGTCGCTACAGCACTGATGATGCAAGA GTGAAAAGATACTGGCGCCATCCAAACCCACATTCACTAGAGGGAAACAGTCATAAAA CAAATGAGTAAAGGAACAAGCTTTCAACTAGCACATACATTATTAAAACCTCA GTAAAATGTATATTGGTTCTTAATATAAAACATATCTCAGGCTAAAGCCAGCCTG TCACCTATGGGAAATGCTAAAGGTTCTCTGAAAGCAGCAAGACAGGGTGC [C, G] CAGTATGAAACACAACGCCAACATGGGTGAGAATTGGTAAAGCTCTAAGGCAAGAGAA AACACCTGGAAGTATAGGAATTGGAAAGAGATAAGATAATTGCTGTTGCAAATTAC ATAAAATCTCAATGGAAACCCAAAAGAATCAATGGAAACCTATTACAAACAGTAAA TTAACCAAGAAGCTGGTTATAAAATAAAATATTAAATTGCCATCAAAT ATACAAACAAAATCAGCTGAAAGAAATAAGAGAACATCCCATTATGATAACAAA
39404	ATTTATTTAAACTCAGTAAATGTATTGGTTCTTAATATAAAACATATCTC AGGCTAAAAGCCAGCCTGCACTTAATGGGAAATGCTAAAGGTTCTCTGAAAGCAA AAGCCAAGACAAGGGTGCCAGTATGAACACACAACGCCAACATGGTTGAGAATTGGTTA AAGCTCTAAGGCAAGAGAAAACACCTGGAGTATAGGAATTGGAAAGAGAGATAAGATA ATTGCTGTTGCAAATTACATAACTCAATGGAAACCCAAAAGAATCAATGGAAA [A, C] CTATTACAAACAGTAAATTAAACCAAGAAGCTGGTTATAAAATAAAATATT TTAAATTGCCATCAAATATACAAACAAAATCAGCTGAAAGAAATAAGAGAACATC CCATTATGATAACAAAAGACATACAAAAAGAAATTCAAAACACGCACAAGGAAAAC

5' → 3'

	TATAAAATACTCTGAAAGAAGCAAAAGTAGACTCAAACAATTATAAAATCCTGTGTTA TTAGATAAGAACATGCAACATTATAGATGTCAGCTTCCCTAAATTAAATTATAAATT
40395	TTTCATCTCTAATATTGCCTCCCCCTCTGACAAGAGGATGCTAGACAAGAACGTAAGG TGTGAAAGACAATGCTATTACCTTAAAAGCACTGTTGCTGAATTACCTTCTGGCTGCG GTGTTGAGGTGGTAGTCCCAGTTGGTGTCTCTCTTCTAGTTGCTAGTATGG ACTTTCAGCTTATTTTAACCTTAGGTTTATCCAAAACATGTCGTTATGATGAATT GGAGATACTTATATTAGTTATGAAACTGCAATATGCAATTCTAGTCTTCCCCCATT [C, G] TTCTCACCAAGGACTTTCTAGAGCTACCTGAATTTCATACCACCAACATT TTCCTATGCTATTCTCTCTTCTGGTCCACCCCTCCCTCCCCCATTTGCTGAAAATCT GCCTGTTCTCAGTCTGCTATTCAAAAGGTCTTTAAAAACACTTTCTTATGTTCCA ACTGGAATGTAATGCTGGTATTACAAGACAAATCACCTTCATTCAGTAATT GTGTTGTTCTGCCCCCTAATCAACTGTGAATATGCAATGCAAGGTACTCAGTTTACC
42294	CTAGTCTCTAATAAGGGATGCCCTTGTATGATTGGAATCATTAACAATCATCTTT TATTACATGGATAGAATGATGAGATCAGAAACGAAAATGAGTCTGGTCTAGAATGTGG CTTGGTTTACCTTCACACATCCTCTGTGGTACTGTCCTCAAAGAGGGAGACAA TCTAAAAGAAAATTAGCAAATTCTATATTGACTACTAAATCTAACATTGCTTGCCTCCTG ATTAGTTCTGTGTTATGCAACACAGCAAAAGACATAGAATGGCTATGTTATCACATGC [G, T] TTGATAACATGGATATTCTACGGCTGGACCTGGTAAACACAAACTTTCACACTATATTGA GTCCAGCTGGTAGTGTGCTGCTGCTGGATCCCTAGGGTCAAGGATCTGG TAATCTGACTCTAACATGAACTTCTGGCTTACATCCCATTGCCATTATCTCGGCTT CGGACTCGATGCTCTGAACTATAGGACAATATGTAAGCAACTGCATTGTTGAATA TCAAAACCAATGGATGAAGGTTGATGGAGCTGGGAAGGAGTTCTATGAAAGTAGT
43354	TCCTATTGTGCACTGATGTTCTTGCTTGTGTTCTGCAAAGTGAATGTTGAGAGTT CCTGAAATAGCCCAGTGTGTAACGTCAATGCTTACAACACTGGCAGGAAGAAAAGGAGTG GGACCTGCCGGCTGGTCTAAGTATTAGGTCTGGGAAATTCACTGACTCACTGACTT GGGTTGTGGGGTGTAACTCTTCAGAACAGTGTACAAGTATAAAAAGAATAGAAGCA CTATGGTCTCAGTAAACTATTTCTGCAAAGAAAAGTAAGATATTGCTAGCAATG [A, G] ACACCTGGTTGGTCCCAGCTGACTCGACCCGGACTGAAAGAGGAACAGATGAGTA ATAGCTGATTTCTGCACAGCTTACAAGGCCAGGAGAGTCTAGAAAGTCTCAGGTCT AGAGAGGAAGCTCCAGTCACAGAACCTGAGGAGGTTCTGTTGATTGCCATT CAAACTGTACCTGACTCAGGAGCATCCCTCCATTGAAGGTTAGGCCACAAATGGCT AACCAACTGCAACTCACATTATGACTTTGAACTCTGACTAAGTATGTTGTTG
43522	ACTCACTGACTGGGTTGTGGGTTGTTAATCTTCTCAGAACAGTGTACAAGTATAAAA AGAATAGAACACTATGGTCTCAGTAAACTATTCTGCAAAGAAAAGTAAGATAT TGTCTAGCAATGAAACACCTGGGTTCTCAGCTGACTCGACCCGGACTGAAAGAG GAACAGATGAGTAATAGCTGATTTCTGCACAGCTTACAAGGCCAGGAGAGTCTAGAA AGTCTCAGGTCTAGAGAGGAAGCTCCAGTCACAGAACCTGAGGAGGTTCTGTTTIG [A, G] TTTGCCTTATTCATAACTGTACCTGACTCAGGAGCATCCCTCATTGAAGGTTAGGG CCACAAATGGCTAACCAACTGCAACTTACATTATGACTTTGGAAACTCTGACTAA GTATGTGTTGAGAAGTGAAGGGGCTAATGTTAGCAGTGGAAATCGACTCAAGCCAA ATCATAGTGGAACTAGCGACAGTAGGGCAAAGTGAATGCAATTGTCGCTTAAACCTG TCCTCTGCCATTCCCCCTTCCAGCCGTAGATGTCAGTCAGTCTAGCTT
44875	GGAGAAAATCCATTCTCTGGTTTAAGTCACTTAGTTGTTGTTATTATGGTGGCCCT AGGACAGTAATACACTGGAAAATGTTGACTCAGTAAACTTTAGTTCTATGTTGTTG ATGATGATGATATTGACTGGAGAATCTCTCATGATTTCTAGACACAAATGTCACTC TCAACAGGGAAATGTAATATGCACTTCCAAACTGGTTCTGTGGGATTTAACAAA ATTAAATTGTGTTGTTAACCATCTCAGGGCAGGCATTCCATGCACTGCAGTGCCTTGTCAAA [C, A] CCTGCCCTAGAGAGGCCAGGAAGAGGCAGAGCTCCTCAGAGTGCCAGGCACCAACTG TGCTCCATGGCTGTGCATGTACAGAACAGTGTGACAGCAATAAGAACATCTTCTTG GTTGTTCTGATGTTTCAGAGAATGTTACGTTACGTTACCTCCCTTCCATGTTAATT TGTGACACAGAGCAGATAGCAGTGCACACATGAGACTCCTCCATTGAGTAACC AGTAGGGATGAGGAATGCTCTGGCTGGTGCCTCTGATGCCCTGAACCTCTTTAG

45677	AAGGGTGCATGCCCTCCCAAGGGAGACAGAGCCATTCCCTCAGGACAGTCCGTATG ACCTGGATATTCATGCCTGGCACCTCCATATGAGCTGCATGGGAAAGAGTGATGGCT GCATCTCTGTGCTTCAGTGCAGGTATTTATAACTCCCTCAGACATCTAAAATT TAATTCAACCCTTCTGAAGCTCAGCAAAGGTGCCACCCCTACCTTCTAAGATACT CCCGTGTCCACTGTGAGGGCCAATGCTGATTGCGACTGCCAAATTCTACTCAAACC [A, G] GTACTTTCTGACTGTTCCCACATGTTGAATTACAGCCATGAGCGAACACTTGAGTA AGCTGAGCAAATGGCTGGGATAATTCAAGCCCTGTGCAGCCATCTGAGGAGCATAAGGGC GATCTGAAGCTATTCCAGATGTCCGTGATTGTGCTGTGATTAGGGCTGCGAGTTGGG GATGAGCACCAATGTCACTGTCATTGCCACCTCCAGCGCTGGCTCCGCACATGTT CAGCCCTGTCAGCCTGGCTCTAGCAAGGCTGTGAGGGAAACCCGGGAGAGGAGG
46024	CGAACACTTGAGTAAGCTGAGCAAATGGCTGGGATAATTCAAGCCCTGTGCAGCCATCTCT GAGGAGCATAGGGCGATCTGTAAGCTATTCCAGATGTCCGTGATTGTGCTGTGATTAGGG GCTGCGAGTTGGGGATGAGCACCAATGTCATGTTGCATTGCCACCTCCAGCGCTGGC TCCCGCACATGTTCCAGCCCTGTCCAGCCTGGCTGGCTCTAGCAAGGCTGTGAGGGAA CCCAGGAGAGGAGGGCTGCTGTCTCAGGGAAAAGGAAAAAGGGGGTGAACCATCAC [A, G] TGACACACTCAGCATGGCTGGCTCCTTGCACTGCAGATCTCTAACAAACATGACCT GCCAGTCCCGAGTGTGAAACTAGAGCCTCACTTCTGAAAACCGTGGATCGTCCCTA ATTGGCAGCTGCTCCAATAGCCCCTTTATAGTTCTGCACTCTGGTGAACCTCAGCTA TCAAGAACTGCATTCTGTTACCATTAATTGATTTGTTGAGCTGAGGAGATGTTCTGGAT CTCTCAGTCCCTGCCTAACATCTATCTTGGTATAATGTGAAGTGGCTGACTGCTTCATG
49591	CAAACCTCATTAAGCTATTGCCCAAGCATATTAAATGTGCTATCCACCAGCCTCTGGGGT TAATTATCTGTGAGTTAAAATCATTGTTCTGCTCTTTATCTCATTGCTGCTGGCA ATCTTCTTATTAGGAAACGAAGTACAGGATGCAACTGACCATTATGTTCTAATTCTAT TCTTTCATCAAAATGAGTCATCTTTAAAGCTCTTGTAAAAAACAAACAAACCTGTC TTTCATTATTTAAGATTGTTGTTTTAAACAATCTTAATCTCTGCTTCAGC [C, T] GGAGCAGAGCCAGGACTGGAAATAATGTAAGGGGAGACCTCCTCTAAATCAGCAAG ACCTGCCAACACTCTCTCCTGATTGCCCTCACTCACTCTGCATTGCCCTTCT CCTGTGGCTGTGGTGGGGCTTCCAAGGTGTACAAGTTGGCTGGTGAATAAGCCACAG TGTCTGGCAGATCAGGCAACCAGGGTGGAAATCTGTCATTCTAACACACCCCCACT GGTCTCTACATGCTTATTGGTTATATTCTTGTGCCAGGTTGCCATTGGTCCAA
49822	AAACCTGTCTTCATTATTTAAGATTGTTGTTTTTAACAAATCTTAATCTCTC TGCTTCAGCCGGAGCAGAGCAGGACTGAAATAACTGTAAGGGGAGACCTCTCCTCTA AATCAGCAAGACTGCCAACACTCTCTCCTGATTGCCCTCACTCACTCTGCATTGGC CCATTCTCTCTGTGGCTGTGGTGGGGCTTCCAAGGTGTACAAGTTGGCTGGTGA TAAGCCACAGTGTCTGGCAGATCAGGCAACCAGGGTGGAAATCTGTCATTCTAAC [A, G] CACCCCCACTGGCTCTACATGCTTATTGGTTATATTCTTGTGCCAGGTTGCCATT GGGTCCAAGAAATGCGTCAGGGCTGCATTAAAAAGAAAAAAACAAAACCTTT CACAAAATGTTGAATGTTGCTTGAACTCTCCAGGAAGTCAGGGAGCGTGTCCCAGAA ATGAGCAGGTAGGATGGGCACTGGCTCATGGAGACAGTGACCCACAGCCTCCGGGATA AGAGTGCAGCCAATAGTGGGAGACCTGGGGGGCTGAGCGCAGTCAGTGCAGTTGG
50057	GTGAATAAGCCACAGTGTCTGGCAGATCAGGCAACCAGGGTGGAAAATCTGTCATT CTAACACACCCCCACTGGCTCTACATGCTTATTGGTTATATTCTTGTGCCAGGTT GCCATTGGGTTCCAAGAAATGCGTCAGGGCTGCATTAAAAAGAAAAAAACAAAAA CCTTTTCAAAATGTTGAATGTTGCTTGAACTCTCCAGGAAGTCAGGGAGCGTGTCTC CCAGAAATGAGCAGGTAGGATGGGCACTGGCTCATGGAGACAGTGACCCACAGCCTTCC [G, A] GGATAAGAGTGCAGCCAATAGTGGGAGACCTGGGGGGCTGAGCGCAGTCAGTGC GTTGGATGGTGCACAGAGCTGGTCTCCCATGACTGCAAGCCAGTGATTGCCCTACCC TGTTCTGGGGCTCCAGTCTCAGCTCATTCTGCCCCCTAATGGCTCTCACCT CATCAGTGCCTCAAAAACAATATCTGGGACTCTAGTTGATAACTACTACTTGCATTGGA GAAATGACTCCTCTGGAAAGGTGAATACGATTCTCAGAGTTGAGGTTTATTGGTT
50523	ATGGCTCTCACCTCATGCTCAAAACAATATCTGGACTCTAGTTGATAACT ACTACTTGCATTGGAGAAATGACTCCTCTGGAAAGGTGAATACGATTCTCAGAGTTGTT GAGGTTTATTGGTTGCTTATAGAAGTTCTTGGCTGATTGGAGTTGGTGTGCAGAG

F000000000000000

		ATGACCCGGCATAGTCCCTGCCCTTATAGATGAGTCAGTTGAGAAGATGCCAAGCGTCC TGCAGACAGATGTCTACCTGGTGTACCTGCACCAGCCACCTCTCAGTTGGTCC [G, A] CAACATAGAGAGAGCATTGTCAGTGTAAATTGATGTTGAAATCTGGGAGAACAACTCTC TGAATGTTCTGGTGGAGGTGAAGGTTCAAGGATCTTTTCCAAAGCATGGCTGTCTCAGC AGAGGGTCCCCTTGACTTTAAGGGCACACTGTACCACTGGTGACGTTTTGTTGCAA TAACAAACCCCAACCCAACTAGCTAAACAAAAAGAGGACTTATGGCTTATGTAATTGGA TAGTCCAGTGAGGGTGGAGGTGAGGAGTGCTGGGCTTCAGATATACTTGATATGGAGTG
51537		GCCTGAAAAGCAGGCTAAGAACATCAGCAAACATTCACCTAGCGTTCAGGGGGAGGTGCT CTCTTCTGTCTTCAGAAGGAATCCAAGGCTAACAGAGATTAAAGCAGTTGACCCAAAGGTACACA GAAGCTTCTAACACAGAGTGTGAGTTGAAACTCAAGTCCCTGATGACAATAAAGGGCACTT TTTTGTTGTTCAAATCACAGCTGCCTCAGCGATTGGGTTCTTCACCTTGTCTTTG CCCTGTCCCCTAGGGTAGCTGCAGGAGGTACCTGGGAGGTGCATCAAGCATTCAACCAGC [C, T] GAAACTTGAGAGGGGTTTACCCCCAACATGACATCCTTCTTAGCAGTTAGCCAAAG CACATAAGGATGAAAAGCAATGAACATCAAATGATGAAATCACCCAAAATAGAGAGAAA AGTGAATGAGCAAGCCCCCTCACCTGGCAGTGGCTTCAGTCCTTCTTGATGATTTGT CAGAAGCTTTATTTCCACTTTCTAACAGAGATCACCTTCTTCTGGGAAAGGGGTTGG TGGAGGCTCGCTGGGCTGGCTGCTAAATGGCATGGGTGGCAGACAGGAACACAGG
52702		ATAATGTTGTGTAAATTCTGATTGAAATATTGTATTCAAAAATGTGGATTCTATTGTTCT ACAGTCAGCATGCCCTGCAGAGTCAGAGGTCTGGGACCTCCCCAACCTCCCATCTCGGG GAGCTGTGTTGCTGCTGCTACCAAAGGGAGTAGAGAACCCCCAACCTCAGAAGAAATA GGCCTGAAAAAACCCACGGGCTGGGCAATGCGTTGGGGGTTAAAAATATATTTCAG TCTATTGCTTACTAATTAGCAGTTATTGCTCTCCCTTTGCTGGAAAGCAACATT [C, -] CCATCCAGCTGCTGGCTGCTTCATTGAAATTTTATCATTGTTGAGCCCTGCATGT TTGGACACAAAATGGGAGTCTGTGCTGGCTCAGAGGGGACCTTGATTGATAGGGTCAGATC TAATCTCTGCTCAGAAACTCAGCGAAAATAAAATGAGTTGAGGTTCTGTTGTGT GTGTGTGTTATTTTAAAAACAGTAGGCCTGAAAGCTGTGCTGGCATATTACTTTT TCCCCTTATACAGAATTAAAATAACCTTACATTCAAATAGTGTAAACGGTGTGCCT
53996		GCAGCGCGGTTGATTCTGTACCGCATCGCAGATGCTAAACTCCCCATGCTCTCCA ATCCAAACCTCACTGGTCTCTGCAGAATTCTAATGAACAAGATAATTCTTGAG TGTGTTGAATGAATGAATGAATGCTATTAAACTACAAGGTGACAGATATTCCATGT GCCTCTAGGAATTGATGCATGCCCTTCCAAGAAGACAAGGTTGAAAGCAGCTGTTGTT TTGAATAAGCTCAGCACTGTCTGTCTGTTAGGAAAAATAATAATTGTTCTGCCCA [T, C] GAGAATTCTGGAAGTGGAGCTGTCCAGAGCTGACCCGTCTGTCCACATTCAAATTCA TTTGGAGAGTCTGGGAGAGGGAGCAGATGAAGCCATTCTAGAAATGTAATGCTGTTG ACATCTATTAGCTCAATGCTCATCCATTGCTGACAGCAGGATCCATTAGGACGCGA CATGGATCAGAGACATTGAAATATAGCGAGAAACATGCTACCCGAGCAGAGGCCAT TAGATGACTTGAGAGAGCACTAGATGTGCCACCAGTGTGGTCCAGGCACCTCCCCCA
56613		GACATTGAGTTTCAATCCCTGTTGACTAAGGTATAGAACCTGTTAATTATGGACC AGTAGAGTCAGATGTCAAGTAAGGAGATGGGGAGAGGAGAAAGTGGAGGGCAGGAGGGAA GGTGGGGAAAATTAGACTAAAGCTGAAGCAACCTTACCTCTCAGCCCTCCTGAAAT GTCTCTAATGATGCTGGTGTAGAAGTGGCTTCTGTTAGGCAGTTAAATCTTCCAT CATTCTATCTTTGATATTGTGCCTTAATCTATAAATATTCACTCTAGGCAGTA [A, C] ATTTACAAGCAAGGTTCAAGCTGGTAATTAAATTATTGTGCCTCTCTATGTAAGTTATGT CTTTAAATGAGCAATTGCTTAAGCATTAAAGACATTCCACGTTATTGCAAGAGTAAT TACTTCCAAGATATTCAACTGATATTGTTACATCTAAATATACTTACAGTAC TCAGTAGACCAGAAATAGCTCTAATTATATTGCTGGCCACTGGGTTAGAAAAAGAGACA TTTAAAAGTATGTTTAATCAGTGTGTTATCCAAAGATACTGTTGGCTCCTCCAGA
58383		CCTGGGGTTGTGACTTCTAATTCTAAGTGGCCTGTAGTATGGGGACTAGGATGTCTT GGTGAATACTTACTGAAATGCATTGGTTAGAAAGCCTGGATTAACTGGACCAATT TTTCTCTCCTCAAAACTGAGTAATCACATTATCCACCAATTCAAGAAAGAGTAGACT AATAACATGAAAATTAGAACTATTATGCGACTTATTGTTCTGGCTATATGGGAGGC TAGATAACTTAGCTGACTCTCCACCTAAAACAATTAAATAATGGATAAAACATTAA [G, A]

58512	CAATCCCTTAAATACCTCAGTGAGAAAGCAGGAACATAAGGATTCAAAGGGCCAAAAC TCAGAGAAAGTTGGGTTCTAAAGCAGACTTTGTTGAGAGTATTGCCCCATGCAGGT GACCTTGAACCTCTGATTGTTACGACCTCAAGAGATATGGGACAGGAGTCAAGCCTAGGG CAGATCAGTCTGTTAGAAAACCTCCTACATAAAAGCTGAGACCCCACAGACCCCCAGT AGGCTACCTCTAGTGTAGGATGAAATAAAACATGCCCTGTCTTCTCTCAAGG CTCAAAACTGAGTAATCACATTATCCACCATTTCAGAAAGAGTAGATACTAATAACATG AAAATTAGAACATTTATGCAGCTTATTGTTCTGGCTATATGGGAGGCTAGATAACT TAGCTGACTCTCCACTTAAACAATTAAATAATGGATAAAACATTAAAGCAATCCTT TAAATACCTCAGTGAGAAAGCAGGAACATAAGGATTCAAAGGGCCAAAACACTCAGAGAA AGTTGGGTTCTAAAGCAGACTTTGTTGAGAGTATTGCCCCATGCAGGTGACCTTGA [A, G] CTCTGATTGTTACGACCTCAAGAGATATGGGACAGGAGTCAGGCTAGGGCAGATCAGT CTGTTAGAAAACCTCCTACATAAAAGCTGAGACCCCACAGACCCCCAGTAGGCTACCT CTCTAGTGTAGGATGAAATAAAACATGCCCTGTCTCTCAAGGATGTGTGAA GAAAATGCGCTGCCCTAAACCTTGATGCTGAGTGGGAGCCAAAATGTTCTCTGAGAAC AGGAACCCAAGCTAAGCTTCAAGTAACTCATATAACAGACTAGTCTGAGAAAGCCTC
59951	GTCAATCTAGAATTTTAGACCTATTAAACCATTGTTCCACAAACACTCTTACTCTTATTTTCT GTTTTTCCCTTCTTTTTTCCCCCTCAAGCTTCAATCTACCTTGAGTTCTTAAACCTT TTCTTAGAGTTTTTATGTTAATTCTAGCCAGTGATTCTTAAATTCAATAATAC TTTACAGTTCTAGATCCTTTGATTCTGTTATGGGTTCCAGTTCTCCGTTGAGCTACT CTTCTTTCTTGCCACACAGATGATAGTAATTGAAAGTCTCTGCTGCTAATGCCA [G, A] TAGTGTAGTATCTCTAGGTCTACCTCAACTGATGATTATCTCATGATTACAGGTTAC CATTTTTGCTGTTCATGTTAGACTTTGTTAGGAGATTTTTGGTTCTCCCTCAG TTGTAATGTTAGGCCTTATTCTTAGGATATGATTCTTACCCATAGGACAAAGCCTTTT GTGAGTCTGAATATCAACTAGTATGCTGCAATTCTGCTGCCACTAACCCCTGGAGT TAGCAGACACCTAAGTTAGGACTCAGTCTCTATAAGACTGCTCTCACTTCAAACGCT GTCAATCTAGAATTAAACCTGATAGTGGGTAACGTATAAAAGAAAAG AGGTTGTTGGCTCACAATTCTGGAGGGTGGAGAAGTCAGGCTAACATCT GGGTGACTCTGGTGAGGGCTCATGCTGCATCATGACATAATATACTAGGGAAAGTGGG GGGTGTGAAAGGGAAAACCTAGGGAGAAGCCTTGCTTTATAATAACACACTCTGTAA CTAATTCACTGCTGTGAGAGCAAGGACTCACTCACTTCTCGAGAATTACAGTCTG [T, C] GAGAGTGGCATGAATCCCTTTAGTGACCTAATGCCCTTAAAGACTCTACCCCAACA CTGCCACACCAGGGACCAGATCTACGCTGAATCTGGGAGCAGCTCTCAAACCATATA TGGGAGCTCTTTGTCAGAAGTCAGGCTAGCTCTAAGACCTAACCTCTACTCACATG GTTGATATTCTGGTGACCAGCCCTGCTCTGAGCCATCTCATCTTAATGAAACTCA GGTGTGATATAAGGTGTGATATAAGGTGTGATAAATAAAAGATACTCCTTACTCC TTAGTGGTCTCCACTGCCAAAAGCTCAGAGTATTACCAAGCTCTATAACTTGA GGGCCAGAATTTCACCTACTCAGTGCTATACAACCTGAAAATCTGTGAGCTCTTAG CTCCCCAAATATTCCAGGCCCTGAAATCTGCTGTTCTACAGCTTAGGATTAG TCCGGGACCAAAGAGAAACCTATTCAAGGCTTTGGGCTCTTTCTGTAAGTTGCTCT TATCTGAGCTCAATTCCAGTCTCAGAAATCTCAGACTTTGACATCTTCTCTGCC [A, G] GTAAGACTGCTGCTCTACTTGAGCTCCATTCTGACAAGGTTGGGCGTGAAC CCATTAAAAAACTACCCCTCAGGAAGAAAAGGGGTGAGTGTGGTGTCTCATCTCGTGTGTT TTACTGTTCTAGTCCAGCTGTACAGTGATTAACTGAAACACAGCTATTGAA GCCAGAACATAAGTTGCCATTGTTCTCAGTATAGAACACTTATACCATCAAATATCTT 63246
63904	CCACTGGGTCTCCACTGCCAAAAGCTCAGAGTATTACCAAGCTCTATAACTTGA GGGCCAGAATTTCACCTACTCAGTGCTATACAACCTGAAAATCTGTGAGCTCTTAG CTCCCCAAATATTCCAGGCCCTGAAATCTGCTGTTCTACAGCTTAGGATTAG TCCGGGACCAAAGAGAAACCTATTCAAGGCTTTGGGCTCTTTCTGTAAGTTGCTCT TATCTGAGCTCAATTCCAGTCTCAGAAATCTCAGACTTTGACATCTTCTCTGCC [A, G] GTAAGACTGCTGCTCTACTTGAGCTCCATTCTGACAAGGTTGGGCGTGAAC CCATTAAAAAACTACCCCTCAGGAAGAAAAGGGGTGAGTGTGGTGTCTCATCTCGTGTGTT TTACTGTTCTAGTCCAGCTGTACAGTGATTAACTGAAACACAGCTATTGAA GCCAGAACATAAGTTGCCATTGTTCTCAGTATAGAACACTTATACCATCAAATATCTT 65698
65698	GAGGTGGGAGGATCATTGAGCCAAGGGAGTTGAAGCTGCACTGAGCTCTGATGGCACCA CTGCACTCCAGCCTGGTGGCAGAGCAAGGAAAAAGAAAAATAAGACAGGACCAAAGTGA TGAGTTAACATCTCCACCTCACAATTGTTAGGAAAAGAGTAGCAGAGTAAACCAAATAA AGTTGAAGGAAGGAAGTAATAAGAACATAATAAAAGGAATGGATAAAATGAAAAAA AAAAAGTACAACAGAACAGGTTCAACAAAGCCAAGGCTGATTGAAAGAACCAATAA [T, A] CTAACAAAACATATGTCAGAGTAATAAGGAAAGAGGAGAGAGGGAGGGAGGGAAATAA ATACACATATCAGAAATGAAAAGAGATGTAATAATTAAAGCTGAGAAATCAAACAA AATAGAATCTTATTTCACCAATTATTTGAAAGCTGCTGTTGTCATAATTCTCGAAAAAA

FOUR FIVE SIX SEVEN EIGHT NINE

		AAATTGTCCAAACTCACTCAGTAGAAATAAAAACCTAATCAGTCTTAGCATCATTCA AGAAATATAATCAGATTCTAACTGGAAATCTTCCCACAAAGAATATGTCAGATCCAGAT
66118		TAATAGAACATTTCAACAAATATTTGAAAGCTGCTGGCAAATTCTGAAAAAA AAAATTGTCCAAACTCACTCAGTAGAAATAAAAACCTAATCAGTCTTAGCATCATTCA AGAAATATAATCAGATTCTAACTGGAAATCTTCCCACAAAGAATATGTCAGATCCAGA TATTTTACAGTGGGACTAACAAATTTCCAACAACAATTTCATCTCATATGAAC TACTCCAGAACATCCAGAAAAAGTGGGTATTGATGAGAATAACATAAACTTGACACCAAA [A, G] CCTGGTAAGAACATTTTTAAATGCCAGTTGTACATAAAACAAAAGTCTAACAGCAA AATTAGCAAACATATAATTAGCAGTCTATTAAATAAAAAGATAAAACCATAACAAATTGGATT ATCTCAAACATATAATTGTTGCCACTAGAAGTCTTGATGATTTACACCACAGAACAT TTTAAGTGGATAAGTCATATAATCATCTAACATAGATAAGAAAAGTATTAAAAATCT AATATCCATTCTTAAATAGTGTAGAAAAAAATTCTACACTAGGAGAACCAAATAGAAG
66158		TGGTCAAATTCTGAAAAAAATTGTCCAAACTCACTCAGTAGAAATAAAAACCT AATCAGTCTTAGCATCATTCAAGAAATAATCAGATTCTAACTGGAAATCTTCCCACA AAGAATATGTCAGATCCAGATATTTCACAGTGGGACTAACAAATTTCCAACAAC AATTTCATCTCATATGAACACTCCAGAACATCCAGAAAAAGTGGGTATTGATGAGAAT AACATAAACTTGACACACCAACCTGGTAAGAACATGTTTTAAATGCCAGTTGTACATA [A, G] ATACAAAAGTCTAACAGAAAAATTAGCAAACATATAATTAGCAGTCTATTAAATAAAAAGATA AACCATAAACAATTGGATTATCTCAAACATATAATTGTTGCCACTAGAAGTCTTGAT GTATTTCACCACAGAACATTTAAGTGGATAAGTCATATAATCATCTAACATAGATAAA GAAAAGTATTAAAAATCTAATATCCATTCTTAAAGTGTAGAAAAAAATTCTTACA CTAGGAGAACCAAATAGAAGGGACTTCTTAACCTCAAACACCATTAAAAACCAG
66604		GTGGATAAGTCATATAATCATCTAACATAGATAAGAAAAGTATTAAAAATCTAATAT CCATTCAATTATTAGTGTAGAAAAAAATTCTTACACTAGGAGAACCAAATAGAAGGGAAC TTCTTAACCTCAAACACCATTAAAAACAGTAGCAAATAATAAAATGTATTAGTA TATAATGCGAGCAAGGTTTCACTGTTAGGAAAGGGTTTACAGATATGAAAGTGGGA AGTCTAGAATGGTACATTGTTTCAGATGGAGTGGAAAGTATCAGTTAAGTATTGCTT [G, A] AAGTAAGAGTGTGTGTGTGTGTCTGTAACATTCTCTAGCTCTGTGCT GAGAAGGCACAGAACAGCAGTGATACTCCAGTAGCAATGTACACCCCTAGCAGCCAGGTTT CCACTGAAGGGAACTAACGTTCTGAGAACAGTGGGAAATGGAGCAGAAAAAGTACAA TGAATCTGGAAGGTTATTGGTGTAGAAAAATAAGCAGCGCTAAAACATCATGGGAA CTTGTCAAAACGATAATAGTCAACTAAAGGACTCATGCTGCCACATCTGGACAATT
67766		GATTGGGACAAAATATGAGATGACACCATGACAAACACCTCAAAACACCTGACTTTGGT TTTGGTGGCAGGAGGCATTGAGACTGCTGGTGAAAGCTTGCAGGGGCTGTGAGAGCGGGC TGGCAGACTCTGAGGAGGCTCTCAGTGGGACTTAAAGTCAGGGAGGAAAATGTTCCA AGAAGTGGATGGAAGAACCCCTGGATGTTGGTAGTGGGTGGTTAATAATATTGTCACC TCTGTAATGCAAGATAAGGAAATATGCTAAATAACCTGATGATTCCACTAAAGAGG [C, T] TATCAGACAGAAACTTAGAAAGTACCAACAGATTAGTTTTGGTTGTTTTCTTTCT TTTTTTTTTTTTGGCTATGTTAAACATGAGAGGGAGGGTAGCTGGAGGACA AACTGTTAAATATAAGGAGCCAAGACTCACCAAGGCTGAAAGTCAAACTGTTCCATT CCAGCCTCTCAAAGGTTGAAAGTTGTCAAATTAAAGAAAAGATTTCAGGTCAAAAGA AAATCCATGAGGGTACCTATAAGGTTCTTGTAAACCTCAGAAATATTCAAGGTAT
67863		TTGCAGGGCTGTGAGAGCGGGCTGGCAGACTCCTGAGGAGGCTCTCAGTGGGACTTAA AGTCAGGGAGGAAATGTTCCAAGAAGTGGATGGAAGAACCTGGATGTTGGGTAGTG GGTGGTTAAATATAATTGTCACCTCTGTAATGCAAGTAGAAGATAAGGAAATATGCTAAATA ACTTGATGATTCCACTAAAGAGGCTATCAGACAGAACCTAGAAAGTACCAACAGATTAGT TTTTTGTTGTTCTTTCTTTTTTTTTGGCTATGTTAAACATGA [A, G] AGGGAGAGGTGAGCTGGAGGACAAACTGTTAAATATAAGGAGCCAAGACTCACCAAGGCT TGAAAGTCAAACTGTTCCATTCCAGCCTCTCAAAGGTTGAAAGTTGTCAAATTAA GAAAAGATTTCAGGTCAAAAGAAAATCCATGAGGGTACCTATAAGGTTCTTGTAAA AACCTCAGAAATATTCAAGGTATCATAGACTCTTCATCCAGGAAAAAAAGGAGGACTTT TACAGATCTTAAGGTGTGCCTGCTGAACACAGGGCTCTAGCATCTTAAGGACAT

69511	TTCGATCCTGGATTTGTGCTGCACTAATAGATTGGGATATTAGAGAGAGGATTA TTGCATATGGGAGGGATGTGAATTGTGCCAGAGGGTGGATCATAGCAGATTGATTTC AAAGATGGCAGCAGCAATATCTCATCACGCATACCTTATAACATGAATTGACCTT CTTCATGTAGAGATGGGATCTATTCCCTCTTGAATCTGGCAGGTTGTAACTGTGGC AGATGTGATTCTATGACTCTAAAGCTTGTACATAACATGACAATCATCACCTTGC [C, T] GGCTAGATTGCTACGGTGGATCCCCAACCAACCACATATAACAGTGCCCTGAGGTTACCA TCTTGAGGAGCCAAGTGGCAACATGTAGAGACACGTGGAGATGCTCTGAGGCC ACACGAAGAGAAGAGAGACGCTCAACAAGCCCCAGCTGGCTAGCCCCCGCTCTCCA GCTCTGGCTGTTGCTGACTCTAACACATGAGGGACCCAGAGCCAGAATCACTTAGCTG AGTCCATCCCAATTCCCAACCCACAGAAATCATGAAAGATAATAAAATAAGTGTGTTG 69782
69782	GTCATACAAATGACAATCATCACCTGCTGGCTAGATTGCTCACGGTGGATCCCCAAC CACCATATAACAGTGCCCTGAGGTTACCATCTTGTGAAGGAGGCCAAGTGGCAACAT GTAGAGACCACGTGGAGATGCTCTGAGGCCACACGAAGAGAAAGAGAGACGCTCAAC CCCCAGCTGGCTAGCCCCCGCTCTCCAGCTCTGGCTGTTGCTGACTCTAACACAT GAGGGACCCAGAGCCAGAATCACTTAGCTGAGTCCATCCCAATTCCCAACCCACAGAAA [C, T] CATGAAAGATAATAAAATAAGTGTGTCAAACTCCCAGGCTTGAATGGTTACACAA CAAACATAACTGGAAAATAATTACACACTGAAATAATAGGAGTGCATGAGTCCCT ACATACATAAAATGAATAAAATAGTGGACATAAGGAAGCTCTTCTGGTAGAATG CCAGATAAGAAATATAGAAGGAAGATGGATTAAAAAAAGTCTCAGCAGATAACGG AAACCAACAGTCAAAGTTGATGAGGAACAGATAATTACATATTCTGCAAGTGTCT 70895
70895	TGGGGCTTTAGCTTGTCTCAAATGGTCCCCC AAAACATGTATGTACTGTGTTAT ATATGTATAAAATATACATGTATGCCTATATATTATATATGTGTGTAACATATAG ATACACACACACTATATGTGTGTCCTGTGTGTGTGTGTGTTGATATATATA TATATGTGAGAGAGAAATGATAAGCAAATGGGGCAAATGCTAAATCTGAGATAAAAGTAT AGGAGATCCTTAACTATTCTGCTATTGGTGTGAGTTGAAATGATATCAAATAAA [T, A, C] ATGAGCAGGATGAGAGCACCTGCTATCTCATTCTATTAAATATTGCACTGGAGGTCTA GCTAGTCAGTAAGCAAGAGAAAGAAACAAATATGAAAATTGAAAGAGAGAAACA AAACTGTGATTATTCAAAATGATATGGTGTGAGAAAAGCCAAATGCTCTGTGAATAC ATTACTAGGATAACTAATCTTTAATAAGGTTGTTAAATACAAAATCAACATGCAAAA TGTAATTGCTTATCTGTATAACAGTAACAAAGAGAAATGTAATTAAAATTGATACCAC 71575
71575	TTGTGAAGGGGCTAATTAATTAAGAAGGTCACTATTGAAAGGAGTTATTCTCCC CCAAATGAAACAGTGTATTAACTTGTATAGAAAAGTATATGAATGAGTGTGTAAATTG ACAAGCAGGTTCTATAATTATGTGGAAACCAAGGACAGAGAAATGATGGCCACCC AAAGAAATAGCACAAGACACTGCTGGTGGAGAGCAGAGCTGTGCAACTCTTGGAAA CAGTTGGCTTATTAAACAGCTGAAATGCCGTACTCTAGGAACCAGACACCCACT [C, T] CCAGGAGCAACCTCTCATAGAATCTTCCATATTGCACTGGGAGACATGAACAAGAAA GTTCTAGCACCTCTGTCTATAATTAAAATTATAACAAATTAAAGATCTAGCAACAGAG GAATGTATAAAATTCTAAATTGTGATATAGTCTACAGTGTAAAGAATATGCAATTATCC TATAATAATATAGAATATAAAGAGATAGATCTGGAAACTATACCCAGAGTGGAAAATG AAATGAAATTACAGTTACATGTAATAAAATTGATGAGTCTCAGGCACATAATATTGGCAA 72112
72112	AATGAATGAATTACAGTTACATGTAATAAAATTGATGAGTCTCAGGCACATAATATTG CAAAAGAAGCAATGACAAAAACAAAGTAAAATTATTACATAAAATTACATGGATAAT CACTGTATTGTTATTATGCCACATATACTTTATAACTACTTTGCTTCTATTCTATAA

		GTAAATTTAAATAATTAAAGAAATTAAATTTAATGCATTGATTATAATAA TAAAGTACCTTAAATGCCCCAAAAGTAATTGACTGAAATAATGACAATACAATCATG [C, T] CATAGCATAACTAAACAAATATTAAAACAATGTTACACCTTACAAATATTGTTGAAA TAGAAAGTTGTTACAATATGCTGTTAAGGGAGGAGGAAGCAAGTTCTAAAATAGAAT GTACTGTAGGTTCCAGTTCTAATCTGAATAATAAATGAGATAAAATGGAAGA ATATAGACTAAAATTGAGGTTATTCGACTAGTCAGTTGGAATAATTTCTTCC TCGTTGTTATCTGATTCTAATATTCCCACAATAAACAGACTACTTTATAATG
72665		GTATTTCTAATATTCCCACAATAAACAGACTACTTTATAATGGGGTAAAATCT GATGCTAACAGAGACCAGTGCATGCCTTCCGTCATGTGCTCAGTCATTCAATTCTC ACTTGCTTATTCAACCATTCCGCTGTATTGCAAGAGGATCTACTGTGTTGAGAGGCC CTGCTTGGTGTAGCGAAAGAAAGATGACAAGGCATTGTCCTACTCTGGAGCAGTTCA GTCTCTCAGTCTGTGTAATAAACCTAGTGCCATATGCACTATTATGACACAAA [A, G] ACGACACTCATTAGTATGAGAATGTTACTCCTCTCACCTCCAGTCCACCAAAGA AAATCCCATAATTCTAACCCAATTCTATCCCCCTGTCTTAATCTACTTGGACTGCTA TAACAAAATGTCATAGACTGGTGGCTTAAGCAACAGACATTGTTCTGCGAGAAC GCTCGGTGGGGAGACCTAACCTAGCAGCGCTAGAGAGAATTAAAGACACACACAGAA ATATAGAGGTGTGAAGTGGGAAATCAGGGTCTCACAGCCTCAGAGCTGAGAGGCC GA
72798		CCATTCGTTGTTGAGAGGATCTACTGTGTTGAGAGGCCCTCTGCTGGTGT GGCAAGAAAGATGACAAGGCATTGCTCTACTCTGGAGCAGTCAGTCAGTCAGTC TGTGTAATAATAACCTAGTGCATATGCACTATTATGACACAAAACAGACACTCATT AGTATGAGAATGTTACTCCTCTCACCTCCAGTCCACCAAAGAAAATCCCATAAT TTCTAACCCAATTCTATCCCCCTGTCTTAATCTACTTGGACTGCTATAACAAAATGTC [A, T] TAGACTGGTGGCTTAAGCAACAGACATTGTTCTGCGAGAACAGCTCGGTGG GACCTAACCTAGCAGCGCTAGAGAGAATTAAAGACACACACAGAAATATAGAGGTGT AAGTGGGAAATCAGGGTCTCACAGCCTCAGAGCTGAGAGGCCGAACAGAGATTAC CACGTATTATTAAACAGCAAACAGTCATTAGCATGGTTCTATAGATGTTAAATTAACT AAAAGTATCCCTAACGGAAACGAAGGGACGGGCAGAATTATGCA GAGCAGGAACATGCC
73738		ACATGGTAGAGAGAGGGAGAGAGTTCTGTGCCTCTTATGAGGCCAACCATCCTGT CAGATAACCCCCCTCTTACGACCACAGTTAACCTTAATTACCTTCTGAAAGTCTTAAT GCCAAATATAGTCACATTGGGATTAGAATTCAACATACGAATTAGGCGGGCACAA TTCAGTTCATAGCACCCCTTTCTCTTCTCATTAAGAGGCAGGTTGGCTCACATA TTAAAAGGATGAAAGGAGGTTGCATGGAAAAAGGAAGGGAGTTGCAGAGAACGCTGG [A, G] TGAAGAGATTAAGACAATTGGGAGAGATGCTGGGACAGCTGGGATGTGATGCTGG GACAGCTGGGCTGTGAGGGAACGGGACTGGGGAGAAAAGAAGGGATGTTATCA AATGTCTCCA TGAATTAGGTATTGTTGATCTACTAACCTTTGAAAAAGCAAGGAAAGAATTGTT TGTTAAAATTATTGGCTATGTTCTCAACACATTATTCTGAGGC TGGACCTTATGAGTTCTGAATTAAATGGTCCACAATAATAGTCATCATGGCACATGGA
81059		ATAGCTGTCGGGCCAGGCACCCGTGGTTATCACTCCATAGCTCAGTCTGTGTGAT GTGCTTTGCACCTCACCTCATGTTCAAATAAGGAAAAGTGCATGGAGAGAAGG GGAGAATTCTTCTATAATGTGAATGACTCTGCTACTCTGAGTCCCTCAGCTGTT TTATAATTCTTATAGGATCAGTCAGGCTGCATTCCAGGGATGATGCTGGCTGTT ACAGCATTATTATGCTGGAATGCTTATAACATCGGTAGTTATGCA GACTGAATGCACTTAT [G, -] GGTGTGTGTGTGTGTGTGTGTGTGTGTACACGTGCACATCTCAGAGCAAAAGAGAT CACAACGTGAGAGGCTGAGAGAACAGACACTGGCTAGCCCTGCCTGATTGGGGTGA ACCTGGCTTCTCATGAGGAGTCAGAAGCAGTTCTAGTGAAGTAGCATGTC TTGAGGCA TAAAGCTTACACAGTCTTGGAACCTTGACTAATTGTTGATTCTCTGGTCCATGAGC CAAGCATTATAACTAAATACCCCTCAATTGCA GAGAAGTGGAAAGGTGTCAAACACA
81061		AGCTGTCGGGCCAGGCACCCGTGGTTATCACTCCATAGCTCAGTCTGTGTGATGT GTCTTTGCACCTCACCTCATGTTCAAATAAGGAAAAGTGCATGGAGAGAAGGG AGAATTCTTCTATAATGTGAATGACTCTGCTACTCTGAGTCCCTCAGCTGTT ATAATTCTTATAGGATCAGTCAGGCTGCATTCCAGGGATGATGCTGGCTGTT AGCATTATTATGCTGGAATGCTTATAACATCGGTAGTTATGCA GACTGAATGCACTTAT [T, -, G]

	TGTGTGTGTGTGTGTGTGTACACGTGCACATCTCAGAGCAAAAGAGATCA CAAATGAGAGGCTGAGAGAACAGACACTGGCTAGCCCTGCCTGATTGGGGTGAACCT GGTCTTCATGAGGAGTCAGAAGCAGTTCTAGTGAAAGTAGCATGTCTTTGAGGCATA AAGCTTCACCAGTCTTCTTGAACCTTGACTAATTTGATTCTCTGGTCCATGAGCCA AGCATTATACTAAAATACCCCTCAATTGAGAGAAGTGGAAAGGTGTTCAAACACAGA
81328	CATCGGTCAAGTTATGCAGTGAAATGCACTTATGGGTGTGTGTGTGTGTGTGT TGTACACGTGCACATCTCAGAGCAAAAGAGATCACAATGAGAGGCTGAGAGAACAGACA CTGGCTAGCCCTGCCTGATTGGGGTGAACCTGGCTTCATGAGGAGTCAGAAGCAGT TTCTAGTGAAAGTAGCATGTCTTTGAGGCATAAAAGCTTCACCAAGTCTTGTGAACCT TGACTAATTTGATTCTCTGGTCCATGAGCCAAGCATTATACTAAAATACCCCTCA [A, C] TTTGCAGAGAAGTGGAAAGGTGTTCAAACACAGAAATCAAATAAAGGATAATTTCCATCT TCTGCTAAACCTCTCATTTCAGCAATGTAGAAACAAAACAAGAGACGAGAGGACATG TGGGACTGAGAATGAGTGCATTAGCAGTCTTGAGGATACCCACACAGACCTGATGAG CTTCTCAGGACAGAGGGCTGCACTCAGGATTCATCCACAGTGTGATTGGCTGTG TGGACTTACACAACGGCAGCTGTCGCCAGTTGCCAGTGTGGCTCTGGTAGGAAAAGGAG
81617	TATACCCCTCAATTGAGAGAAGTGGAAAGGTGTTCAAACACAGAAATCAAATAAAGGAT AATTTTCCATCTCTGCTGAAACCTCTCATTTCAGCAATGTAGAAACAAAACAAGAGA CGAGAGGACATGTGGGACTGAGAATGAGTGCATTAGCAGTCTTGAGGATACCCACAC AGACCTGATGAGCTCTCAGGACAGAGGGCTGCACTCAGGATTCATCCTCATCCACAGTG ATTGTGGCTGTGGACTTACACAACGGCAGCTGTCGCCAGTGTGGCTCTGGGGT [A, G] GGAAAAAAGGAGGACTTGGAAACTGCCTCCGGAGAGCCTTGGAGGTGAAGGAAGTTGGC TGGCAACTCTGTCCTCAAGCTAAAACCTCAGCCGTTACCCAGCTCCTGGTCCA AGTCTGAATTGTCAGGTTGGCCGACAAGTCTGCTCCTCTCCTGTTCGCATTCATCC CATCTCCTCTGCTACTCCCATGTTCAAAGTCTCATCCCCAGCTCCCTGCAAAGGCC TCCCCATGAGCCTCCCTGACCCCTGCTGCATAGGCCACTTCACAACCTCGTCCGCAAATG
81788	TACCCACACAGACCTGATGAGCTTCAGGACAGAGGGCTGCACTCAGGATTCATCCTCA TCCACAGTGATTGGCTGTGAACTACACAACGGCAGCTGTCGCCAGTTGCCGCT CTGTTGGTAGGAAAGGAAAGGAACTTGGAAACTGCCTCCGGAGAGCCTTGGAGGTGAA GGAAGTTGGCTGCACTCTGTCACCAAGCTAAAACCTCAGCCGTTACCCAGCTCC TGTTGGTCCAAGTCTGAATTGTCAGGTGGCCGACAAGTCTGCTCCTCTCCTGTTTC [G, C] CATTCCATCCCCTCCTGCTACTCCATGTTCAAAGTCTCATCCCCAGCTCCCT GCAAAGGCCCTCCCTGACCCCTGCTGCATAGGCCACTTCACAACCTCGT CCGCAAATGTTACTTCTCACCCTGGCCAGCTCAGTGGGTTGGAGTGTGATAA GCTAATCCACGGAGATCTAAATGCCCTCCAGGGCTCATTAGGAACCCCTACTTTT CTGCCCAAATTCAAGACCATCCGTGGGGATCCTTACCCCTACCTCTCCAATAGGAGTCG
81882	CTGGCAGCTTGTGCCAGTTGCCCTCTGTTGGTAGGAAAAGGAGGACTTGGAAACTG CCTCCGGAGAGCCTTGGAGGTGAAGGAAGTTGGCTGGCAACTCTGTCCTCAAGCTC AAAACCTCAGCCGTTACCAAGCTCCTGTTGGCTCAAGTCTGAATTGTCAGGTTGGCG ACAAGTTCTGCTCCTCTCCTGTCATTCCATCTCCTCTGCTACTCCCATGT GGTCAAAGTCTCATCCCCAGCTCCCTGCAAAGGCCCTCCCTGAGCCTCCCTGACCCCTG [C, T] CTGCATAGGCCACTTCACAACCTGTCGCAAATGTTACTTCTCACCACTGGCCAGCTC AGTGGGGTTGGAGTGTGATAAAGCTAATCCACGTGGAGATCTAAATGCCCTCCAGG GGTCATTAGGAACCCCTCACTTTCTGCCAAATTCAAGACCATCGTGGGGATCC TTACCTACCTCTCCAATAGGAGTCGCACCCCTAACCCAGCAAGTCCCCTCGTCTGGCT GTACATTGGCTTCCCTATTGTGAATGGATTCTCTCTTCCCAAGACCCAGCTGA
82932	TGCTTTGACAGACATATTGAGGCTAAAGAGCTAGGAGAATATTGACAGTTCCCACT GGCTGATGGAGTAAACCAAGGGCTTCAGGAGTCAGTCTAGAAGTCCAGATTCTGGTCCGAG TCCTGCACTGGTCAGCTGAGGGACCTCGGGCTCTGTCACCCCAAGACTCAATTCTTCA TTTGCATGACAAGGGCTTGTGCACAGGTTCTGTAACCTGGAATTCTGATGCTTTAC TCATTCCCTGAAGAGGTTAATTAGGAGCAAGTGTCTTAACTGGCAATTACACTGCTGC [G, A] ATATAGCTGTTAGTGGGCCGGCATATTGCCAAGGCCAGGACGGTTCTGATGATCA TTGCCAGTCTCAGGAGAACAGAGACCGTGAGGAGACTGCTTAAGATGAATAAGAAACTC CCCCCACTCACCCTAACATGAGAAAGCTATGGATCCAGAGCTGGGAACCCACTGGCA

TGGCTGCGACAGCTACCTTCTGCTGTGTCACATGGCCCTTC

	GGATGGTTCAATGCCCTAATTAGCTTGCTAACTCTCCCTAACAGCTTTCTCA GTGGAAACAAAGAAGCTGCCTTGAGTGGAACTCTGTGTATCCTGTGAGGTAGAAGT
84585	AATCCAATTCTCCCAGGCCTCAAGGGCTTGTGATCTCACCTCTGCCTGCCTGTCT CCGTCAGGCCGTCCATCTCTCTCCAGCTTCCATGCTCCAGACACGCTGACCTGTC CTCCTCTGCCCTCAAGCAGGACACACCTGCTCCCACCCCTGGGCTGTGACATGCTGT GCTGCCCCCTCCCTGAGCGGCTCCCTCGGATCTTGTGACTGCTGCTGTCTCATCT GGTGTCTCCCAGATGTTAACCTCCAGAGAGACCACACTGACGTTCTGTACAAGGAC [A, G] CCCGTCTTCCCTGCCACCTGTGACTTTGTTAGCTTCTCACAGCAATTGTTATTATG GGAAATTGTCCTATTATTGTTAATGTCGTACAGTGGACTACGGATGTCGGCTTAAGA CAAAATGTCCTCTCAGACTGGTATTAAAATGTTCAAATTACAATTGTAATAA ATGGTAACATAATAAAATAATTGATATTAGGTCCTGGACTGCTGTTGAATGAAT GAATGGCAACAATGATAGGAGTAGTTGCTGTTATTGAGTACCTGTTATGTCAGGCTC
85092	GTATATTAGGTCCTGGACTGCTGTTGAATGAATGAATGGCAACAATGATAGGAGTAGTT GCTGTTATTGAGTACCTGTTATGTCAGGCTCCACATTAAATCATCACACCAAAACCA AGTGACCAAGTGTGTCACCTCACTTACATATAAAAACATATTAAAAAAACCAAGATT CACAAATGTTACATGATTTCACTTTGTAATAGGCGTAACAGCCTGGATTCAAGCCAG GTCTGACTGGTTCAGAAACCCATGCCCTTCTAAAGAAGAAGTAGGTAACCTGCTATG [T, -] CATCCACTATCTGGGGTTTCCCTGCTGGCTGGTTTCCCTTCTCTCCACTCTGCAC CCACCGAGCTCCAGGCATGGATGCCAGTCATTCAAGATTCTCTATGTCGTGCTGTG TAGTCTACTTGGGCTGCCATGACAAAGTATTGCAAGACTGGGTGGCTTCAACACCGGAAGT TTATTTCTCACGGTCTGGAGGCTGGAAAGTCTGAGCCAAGGTACTGGGAGGATTGGTGA GGCCTCTCTGGGCTTGACACAGTACCTTCTGCTGTGCTCCTCACATGGCCTTCC
85096	ATTAGGTCCTGGACTGCTGTTGAATGAATGAATGGCAACAATGATAGGAGTAGTTGCTG TTTATTGAGTACCTGTTATGTCAGGCTCCACATTAAATCATCACACCAAAACCAAGTG ACCACTGCTGTCACCTCACTTACATATAAAAACATATTAAAAAAACCAAGATTCA AATGTTACATGATTTCACTTTGTAATAGGCGTAACAGCCTGGATTCAAGCCCAGGTCT GACTGGTTCAGAAACCCATGCCCTTCTAAAGAAGAAGTAGGTAACCTGCTATGTCAT [C, -] CACTATCTGGGGTTTCCCTGCTGGCTGGTTTCCCTTCTCTCCACTCTGCACCCAC GCAGCTCCAGGCATGGATGCCAGTCATTCAAGATTCTCTATGTCGTGCTGTGTTAGT CTACTTGGGCTGCCATGACAAAGTATTGCAAGACTGGGTGGCTTCAACACCGGAAGTTAT TTTCTCACGGTCTGGAGGCTGGAAAGTCTGAGCCAAGGTACTGGGAGGATTGGTGA TCTCCTGGGCTTGACACAGTACCTTCTGCTGTGCTCCTCACATGGCCTTCTG
85100	GGTCCCTGGACTGCTGTTGAATGAATGAATGGCAACAATGATAGGAGTAGTTGCTGTTA TTGAGTACCTGTTATGTCAGGCTCCACATTAAATCATCACACCAAAACCAAGTGACCA GTGCTGTCACCTCACTTACATATAAAAACATATTAAAAAAACCAAGATTCAACAAATG TTACATGATTTCACTTTGTAATAGGCGTAACAGCCTGGATTCAAGCCCAGGTCTGACT GGTTCAGAAACCCATGCCCTTCTAAAGAAGAAGTAGGTAACCTGCTATGTCATCCAC [T, -] ATCTGGGGTTTCCCTGCTGGCTGGTTTCCCTTCTCTCCACTCTGCACCCACGCAG CTCCAGGCATGGATGCCAGTCATTCAAGATTCTCTATGTCGTGCTGTGTTAGTCTAC TTGGGCTGCCATGACAAAGTATTGCAAGACTGGGTGGCTTCAACACCGGAAGTTATTT TCACGGTCTGGAGGCTGGAAAGTCTGAGCCAAGGTACTGGGAGGATTGGTGA TCCTGGGCTTGACACAGTACCTTCTGCTGTGCTCCTCACATGGCCTTCTGCA GGTCAAGCCAGGTCTGACTGGTTCAGAAACCCATGCCCTTCTCTAAAGAAGAAGTA GGTAACCTGCTATGTCATCCACTATCTGGGGTTTCCCTGCTGGCTGGTTTCCCTTC TCTCCCACTCTGCACCCACGCAGCTCCAGGCATGGATGCCAGTCATTCAAGATTCTCT ATGCTGCTGTGTTAGTCTACTGGGCTGCCATGACAAAGTATTGCAAGACTGGGTGGC TTCAACACCGGAAGTTATTTCTCACGGTCTGGAGGCTGGAAAGTCTGAGCCAAGGTAC [C, T] GGGAGGATTGGTGAGGCCTCTCCTGGGCTTGACACAGCTACCTTCTGCTGTGCTCCT CACATGGCCTTCCCTGCACGCATGCCGGAGAGAGACGGCTGGCGTCTCTTCTATAA GGACACCAGTCTATCAGATTGAGCCCTGCCCTCTGACCTCATTACGTTAACATGAATGT TCCTTGAGAATTCTAACTCAAATATAGTAACACTGGGTTAGGATTAAACATGAATGT GGGGTAGGGGGACTCGGGGGTGGCAGGGCACAATTCACTGCCCCAACATCTGTGGA
85318	FIGURE 3, page 136 of 188

	85467	GCATGGATGCCAGTCCATTAGATTTCTCCTATGTCGTGCTGTGTTAGTCACTTGGGC TGCCATGACAAAGTATTGCGACTGGGGCTCAACACCGGAAGTTATTTCTCACGG TCCTGGAGGCTGGAAGTCTGAGCCAAGGTACTGGGAGGATTGGTAGGGCCTCTCCTGG GCTTGCACACAGCTACCTCTGCTGTGCTCACATGGCTTCTGACGCATGCC GGGAGAGAGACGGCTGGCGTCTCTTATAAGGACACCAGTCTATCAGATTGAGCCC [C, T] GCCCTCCTGACCTCATTTACGTTAATTACCTCCTGAGAATTCTAACTCCAAATATAGT AACACTGGGGTAGGATTAAACATGAATGTGGGTAGGGGGACTCGGGGTGGCAGGG GCACAATTCACTGCCCCACACATTCTGAGAAACACTTTCCGATGCCTTAATTATACC CAACTGATTAAAATACAAAAGTAATTTAACAGTCCCCAATCAGTGCTTGAGGGCTAGAA AACATTGAAATATGTGATCCCTGCCCGAGGCACCTAGCGTTCAAATCTCGGACTCAT
	85488	GATTCTCCTATGTCGTGCTGTGTTAGTCACTTGGCTGCCATGACAAAGTATTGCA ACTGGGTGGCTCAACACCGGAAGTTATTTCTCACGGCTGGAGGCTGGAAGTCTGA GCCAAGGTACTGGGAGGATGGTGAGGCGCTCTCCTGGGCTTGACACAGCTACCTCT TGCTGTGCTCCTCACATGGCCTTCTGACGCATGCCGGAGAGAGACGGCTGGCGTC TCTTCTTATAAGGACACCAGTCTATCAGATTGAGCCCTGCCCTGACCTCATTTA [C, T] GTTAATTACCTCCTTGAGAATTCTAACTCCAAATATAGTAACACTGGGGTAGGATTAA ACATGAATGTGGGTAGGGGGACTCGGGGTGGCAGGGCACAATTCACTGCCCCTTACAC ATTCTGTGAAACACTTTCCGATGCCTTAATTATACCCAACGTGATTAAAATACAAAAG TAATATTAACAGTCCCCAATCAGTGCTTGAGGGCTAGAAAACATTGAAATATGTGATCCC TGCCCCCGAGGCACCTAGCGTTCAAATCTGGACTCATTGAGTTGTGCTTATTAAAT
87268		GAGTTGCTATTTGGAATCATTCAATTGATGATTCTCAAAGATTCTGAGAGCCA GATGCCAGGCACTCTCCCCGTGCTGAAGATAGGGTGGCAGGCAGTACAAGCTCTGCC TTGGTGAGCTTGCAAGTCTCATGAATTAGGATTCCAACGTGAAAGTGAACAAAAATGCAA CCCAAAGTGTCTTAAGCCAGGAGAAAGGATCTGAACTGGGAAGACTAGTGATAACTGG TTCCATATTATTGCTGGATTGGCTCAGGAGCAAGTGACAGCCTGCC [A, G] ACTGCTCAGCTGAATCTCTGAGGTTCTTGTGCTGGACCAGCTGGGCTCTGGGACCAT CCCTGAAACACCAAGTTATAGAGAAGGAAGACTGCTGACTTAAGGTTAAGTGGACAA TGTGTTCCCTGCTGCTGGGATGGGGGTCACTTCACCTTAAGAGTGGGTGGGGT CATTTGCTAAAGCAAGCTCAGGACATGCTGCCCTAGGAAGGAAACAGTGATGCTGAT GAAAAAAAATTTCTTAAGGTAGTTACTTTAAGTTAAACAAACTCAGAAAG
	89813	TTTCTTCCCTTCAGGTCTCATACTTTATTGTAAGTGGTCTAATAATAGTCTTCTT CTTCACTGGATTGATGAAAGACTCAAGTACTAACACACATACAAAGATTATGTTAATT AATGCATTCCATGGGGGTGAGGAATAATATCCTTGTAAATTGGTTAAGAACGAT TTTAAATTCTCCCAATTACAAAAGGATAAATTGCTTGTAGCCAATTGGAAATA TAGCAAAGCACATAAAATATTAAATTATCATTCCAGACATAAAAACCATCATT [G, C] GCATGTATCTCCAACCAAGCTTTCTATGCACGGGTTAAGAAAAACAGCATT ATCTCTGTTCTATATCCTGTCATATACTCCTAATTGTCCTAACATAGAGTCTAG TAGTAAAATTGGTAGAGCAGAAATATGCAAGAGTTTCAGATCTTAGAAACTAT AGTGTCAAACGTGCCATTGAAAGGTTATTCAATTCCAGAAATTGAAGATAATG CTGCCCCCTCCCCACCTGCTTGTGGGTGCTAACATTCTAAACATCTTACTAAT
	91487	TGCATGGGTATGATCTCGGCTTAATGCAACCTCCACCTCCCAGGCTCAAGCAATTCTCT GCCTCAGCCTCTGAGTAGCTGGGAATATAGGCACCTGCCACTATGTCAGCTAATT GTATTTTAGTAGAGAACAGGTTACCATGTTGGCAGGCTGGCTCAAACCTCTGACC TCAGGTGATCCACCCACCTGGCCTCCAAAGTGTGGGATTACAGACATGTGCCACTGA CCCTGGCCAGTTGTACATTGTTAGTCGGTTGAGAGTCAATGTTGCTATAAGGCCGA [T, -] TTTTTTTTTTTGAGACAGGGTCTCACTCTATCTCCACGGCTGGAGTGCAGTGGTCAA TCATGGCTTACTGTAGCCTCGAATTCTGGGACCAAAGATCCTCTGCTCAGTCTCCA AAGTGCTGGGATTATAGGAGGCCAGCCTCAAGGCAGAGAGGGCAGAGATTGATTTAATT TCTTCCATGTGGTTACTAATTGTTCAACACCATAAATTAAAGACATATCCTTCTT TTTCCTGAAATGACACCCTATTACATGTATCTCCTAGATTAGTCTGTTGTTTT
	92081	TTGTTTGATCTGCTGTTCTGCTGCCATACCCATTGTTGGTAACCTAGTTTAC AATGCACTTTAATGTTAGAGAACGACTGCCTTCTGAATCTTTTTTA GAAATGTTCCACATGAGTGAATTGAAATAATTGTTATGTTCCAAAAGAAATCCC

		ATTACAATTTATTGAAATTGTGTTACTGTTAGGGAAATATGGAGAAAATTAAATCT TTACAATCCTGAATTTCCTATTCAAGGACACAGAGCTCTCCGTTACTCAACCCTCCT [A, G] TTTTCTCAATAAATTCTGCATTTCTCATAGGTGTTTGACATTTATAGACATT TTATATTGGTGTGTTGGATTTGTCAATTATAATTCTGGTTGTATGTG TTGTATTAATTATATTGAAACAGTCCTACTAAATCTTACAAATTCTAATAGTA ATTGTGAACTGTAGATTTTCCAGAAAATGATAATTCTCCTCTTTCAA TGTGTTTGTACTATTCTGTATTCTGTCTAACCTGAGGGCTAGACCTCCAGGAAA
92888		TATTTTGCACTTTCATGAGCTGTAGATTTAGTTTACATTTCATTCTCATAT GGTGGCTGATGCACTTGAAAGTAAAGAACTCAATTTCATATACGGAATTG TTGAATATTGTTGCCCTCTAAGTACTTTGATGTTATTACCAACCTTGCTTTTGTC TTTGGTTTTCTGACATTCACTTGCCAACAAATATTCTGAGTGCATACTATGTTCTA AATACTAATTTCAGGGTTATCATTAACTATATTGTTGATGTTGCTTTTT [A, T] AAAAAAAAGCAGGTGATATTGTTGAGCCAATCTGAGAATTATTTATGTTACAG GAAGATTTAACCTATTATAGTTATTATAATATGTTATGATCAGAATTGCTTCTGCA GCTTATTGTTCTGAATTATGCTTCTTTCTTGTATTCTGATTGACTCTAT AAACTGTTGTTATTATCATCTCAGTGCCCTCATATATTCCCTAATCTAAATCT CCCATAGGTTACCTTAAAAATTGGAAGTTTTTCTTCCCTTTAAGAGA
93194		AAAAAAGCAGGTGATATTGTTGAGCCAATCTGAGAATTATTTATGTTATCACAGGAAGA TTAACCTATTATAGTTATTATAATATGTTATGATCAGAATTGCTTCTGAGCTTA TTTGTGTTCTGAATTATGCTTCTTTCTTGTATTGACTCTATAAACT GTTGTTATTATTATTATCATCTCAGTGCCCTCATATATTCCCTAATCTAAATCTCC AGGTTACCTTAAAAATTGGAAGTTTTTCTTCCCTTTAAGAGATGGGG [G, T] TCTCACTTGTGCTCAGGCTGGAGTGAGTGGTGTGATCATGGCTCATTCCAGGCCCTGA CCTCCTGACCTCAAGTGATCCTCCCCACCTCAGCCTCCCAAAGTGTGGCATTACAGGTGT GAGCCACCATGCCTAGCCCTGTACCACCTTAGTTCTATTATTAGGAATTGGAG CCAACCAATGAAAGACTTTGTTAGTCTTTCTTCTAAAACATGCTGACAATTATTC AGCTTATTAAACCAACATTATAGCATTATTAGTATTCTGTTATTGTTGGTGCAT
94938		CTCCCAAAGTTCTGGGATTACAGGCATGAGCCACCGCGCCGGCCCCGACAGTTATT ATTCTCTGAGGTGCCGAAGTTCTCTTACGTTCTGAATTCTAAAGTAGATCATT TCAGAGAGGACCTTCAGGATAATGTTCTGTTGTCGCAATGTACAGATTCTACTCCC CTCTATCCCCACTCCTTGACCAGGCTCATGTTGGTTAAATCTGTGTACTTACCA CTGAAAAGAAGTGTACCCAGTCACTGCTGACCAATAGTCAGGATGTTAGAAGC [C, T] TTTGTCTTGCCTGTCATGTGGATGGCTGAAGACAGGTTAATAGCATCCAATT ATAGAATTGGAATTGGAAGAATTCTATAGGAAGAACATCCACTCATGCA GCCCCACTGGCTGCTCTGCCCTGTAACACATGGATGGGACAGGACACACTGCAG TTCATAGTGTACTGCTGCTGGGTCTCTGCTTACCCACTGTGCGGTGAATT ATGTATTCTGCTGTCTAGGGTAACCATTCTCTGTGACCAAGAACATACAATT CA
95367		GGCTGCTGCTCTGCCCTGCTGAACACATGGATGGGCACAGGACACACTGCAGTT GTATACTGCTGCTGGGTCTCTGCTTACCCACTGTGTCGGGTGTGAATT CTGCTTGTCTACTGGTAACCATTCTCTGTGACCAAAGAACATACAATT CTGCTTCTGCTTACCCACTGTGACCAAAGAACATCTGCCATTGG ACATATATGATGTGAATATAAGTATACCAAGATATTCCATGCTT AGTTGGAGTTAGG [C, T] GTCAACAGCAAATGCCGTTACAGAAGAGGATTAGCAAAGGCGCAGCTCTGGAGG AGGTCTGTGAGATACTAGAAAATCTTACCCAGGCCGGCACAGTGGCT CATGCCCTGTAAT CCCAGCACATTGGGAGGCTGAGGCGGGCTGATCATTGAGGT CAGGAGTTACGACCAGC CTGCCAACATGGGAAACCCATCTCTACTAAAGTAATATAAAATTAGCCAGGC GTAGCTCATGCCCTGACTCCAGCTACTCAAGAGGCTAAGGC ATGAGAATGCCATT GAACC
95495		CCTAGTGGTAACCATTCTCTGTGACCAAAGAACATACAATT AGCAATTAAATAATATGCATATTGTA AAAAGAACATTCTGCCATTGG AACATATA GATGTGAATATAAGTATACCAAGATATTCCATGCTT AGTTGGAGTTAGGC GT CATCA AAGCAAATGCCGTTACAGAAGAGGATTAGCAAAGGCGCAGCTCTGGAGGAGGT CTG TGAGATACTAGAAAATCTTACCCAGGCCGGCACAGTGGCT CATGCCCTGTAAT CC CAGCA [C, T]

		ATTGGGAGGCTGAGGCAGGCTGATCATTGAGGTCAAGGAGTTACGACCAGCCTGCCAA CATGGGAAACCCATCTACTAAAAGTAATATAAAAATTAGCCAGGCATGGTAGCTCA TGCTGTAGCTTCAAGAGGCTAAGGCATGAGAATCGCTGAACCTGGAAAGT GGAGGTTGCAGTGAGCCAAGATCACGCCACTGCACCTCCAGCCTGGCGAGAGAGAGCAA ACTGTCTAAAAAAAAAGGAAGAAAATCTTATCCAGTCCTGGCATCACCTTCCAC
95755		TCCAGGCCGGCACAGTGGCTCATGCCGTAAATCCAGCACATTGGGAGGCTGAGGCGGG CTGATCATTGAGGTCAAGGAGTTACGACCAGCCTGCCAACATGGGAAACCCATCTC TACTAAAAGTAATATAAAAATTAGCCAGGCATGGTAGCTCATGCCGTAGTCCCAGCTAC TCAAGAGGCTAAGGCATGAGAATCGCTGAACCTGGAAAGTGGAGGTTGCAGTGAGCCAA GATCACGCCACTGCACCTCCAGCCTGGCGAGAGAGAGCAAATGTCTCAAAAAAAA [A, -, G] GAAGAAAATCTTATCCAGTCCTGGCATCACCTTCCACCCCCAGTCCTACCTCCCTGTTG GCAACTAAGGCTACTGCAGCATCATATGCATAAGCCATTGCTCTCCTCTGAGTGTACA GGTATCTGGCTATATACATATGTGTAGGTAACACATTATCTTATTACAGAATATACTA CATAAATTATGATGCAGAGTGAAAAGAGATTGAAAACACATTCAAGTGCCTAAAATACT GCTTGGGATATGTAGCAGTATAATTGAAGGACATGTACTATAAAAGTCTAATGTGTAAAA
97031		CACCCACCATGCCATGTCAAGCTGCATCCCTGCTGCCGTCTCTTCCCTGCC CTCAGCCTCTGAATACTCCTGGCTCTGCCCTCTAACTCAGCTGGCTGGATCCCT CTGGTCTGGCATACCTCATTGAAAGCTTCCCTCAAGTCTCACTTTTATTGGGCAA CTGATTAATCACTGAAAATTAATCATTTCAGTGTAAATTTCAGTGTAAATTTCAGTGTAAATT CAGTGTAAATTTCAGTGTAAATTTCAGTGTAAATTTCAGTGTAAATTTCAGTGTAAATT CAGTGTAAATTTCAGTGTAAATTTCAGTGTAAATTTCAGTGTAAATTTCAGTGTAAATT [C, T] GGTCACGTGTGCCCTTGCTCCAGTTAGACGTGGCACAGCAAGTTGTGGGTACAAA TATGGCTGCCCTGGAGCTACTTATTCAAGTTGGGTCTGGGTCAAGACAGTTTCCTTAGAA GAGGCTGTGGGTATGGTAAGGATCGTGGTGCACAGGATTGGTATGATGTTGCTGGCTACT GGGGAGGAGAAGAGGGAACAGCGAAATCCAGAAGCCTGGTTCTTGCCTTAAGGTCTG GCTGGAAAGAAGAGCACATGCAACTCCATCGCTGAATGATCCTGAGTATCTCAGGGT
97176		AAGCTTCCTCCAAGTCTCACTTTATTGGGCAAACGTATTAATCACTTGAAAATTAA CATTTTCAGTGTAAATTTCAGGAAACGTCTGTCAGCTGGCTCTGTCACCTCTTAGG ATGTGTCA CGGGAGAGTCTTGAGTTGCAGCCTTGGGTCACTGTGTGCCCTTGCTCCA GTTAGACGTGGTCACAGCAAGTTGTGGGTACAAAATATGGCTGCCCTGGAGCTACTTATT CAGTTGGGTCTGGGTCAAGACAGTTTCCTTAGAAGAGGCTGTGGGTATGGTAAGGATC [A, G] TGGTTGACAGGATTGGTATGATGTTGCTGGCTACTGGGAGGAGAAGAGGGAACAGCGCA AATCCAGAAGCCTGGTCTTGCTCTTAAGGTCTGGCTGGAAAGAAGAGCACATGCA ACTCCATCGCTGAATGATCCTGAGTATCTCAGGGTGTGATCATGTCCTAACAGGGACC CAGGCCATGCCAGACCACTTGCCACAGAGAGATGCCAGTTAGGTGAGGGACCCAG AGGAGCCTGCCACAGCTGGTCTGGCTGTGGCTTGGGTCCTGAAGGCATGCCCTGT
97768		ATGGCCTGTGGCTTGATGGAACTCAGAGGGGATACATCTCATCTCAGGCCAGAAA ACTCGCAAAACTCCTTGAGCTGGAGGTGAGAGATGACCAAGCAAGAGAACATCAGT GCTACAAATCACTGTAAGAATGGCTCTGAAACAGGGGCCAGCCGAGAGCTATACAGA AACCTTTTGAGCGAGAGCTGGCTTCATGTCCTACAGATGGTTTGACGTC AGAGGAGAGAACCGCGAACCTTATCGAGTGGACACGGCTGTGGCTAGCCTTGCG [C, T] TCAGATCCATTGACTCACCAGTAGAGGCAGAGGACAGGATCGAAAGCTCTGTC TTCCAGAAAGGACTCCCTGGGCTCCATGAAAGAGAGCGCTCTCAGTAACATTACACTAC ATTTGTTCTGTTGCCTTAAATGTTGTTCTCCCTCTGCTGGAAAATTGATCTT CCTGAAAGCTTGCATGGCTGTTCAGGGAGGCTGGGAACATTGTTGGTAGGTCCAG
98400		GAGAGCTGACAGGAAGGTACCACCTGGACAACATGAGCTTAGGCCAACCTGGAAATATC CATGCACAGTCCTGGGTTGAAAGGTAAATTATAGAAATAAGCAGGGAGCTCAT TTAACTTACACATGGCTTGGGGTCAGTGGATTGTTAATATATGATGCCAACAG GTGTTTGCCAGAACCACTGTGTAGAGGGTGTGCTGTGGCTGTGTTCTGCTGGAAA CAGCATTGAGGGTAAGGCAACGAGGTTCCATTGTCGCCATGCCACTTAACCTGTGAC [C, T] TTAGACAAATTAGTTAATCACACTATGCCCTAGTTCAACTGTAAAATGGGATAAT GCTGGTGCCTCCTCATAGGGTATTCTGAGGATTAAGGATATAACGTACTAAATACCT TGGCACAGGGCTAGCATACAGTGGCACTAAATCATTGGTTATGATTATGAAGTATGAG

F02 E00 "25% 0% 0% 0%

	TGAGTGGACCAGATCTTGCCCTACACTCCATATCGGAAACCAGAGTGTTCCTGAG CTCTGTGGTCAGTGAACACAGTCATGACTCTGAGGTTCTGCCAAGGTTCAGAGCAAGC
99782	<p>TCATTGTTGTAUTGCTGTGGTTACTCAGAAACCAGCAACTATGTCAGGTTCTGGTTA CAGAGTAAACCAATAGCAAGTCCTTAATGTGCTTAGAGGTATGCTTCCTCCTGAA GAAACAAGGAAGGATTACAAGATTAACACTTACCTTATATGAGTAAGATGATTAACAA GATCAGCACTTACCTTATATAAGAGTAAGATGAAAGGCCAACAGACAGACTCTAAGGA GCATGAAAATATCAAGCCTGCTAACAGGATCTGGCAAACATCCTAGCAGTTT [A, G] CATTAAACAGATTATACTGTTAATGCTATTTAAAGCTATTGCTCTCACTCATGTGGT TTCAGGACTTCCACAGATACTAAAATCCTCAGATGCTCAAGTCCCCTCACAAAGTGGTG TCGTTTTGCATATAACCTACACACGTTCTCCATACACTTAAATGATCTGGATTAC TTAGTCATGTGCTGCATAATGATGTTGAGTTGACAACAGACGCCATGTACAGTGGAAAGT CCTGTACGATTACACTGAACCTGAAAAATTCTGTACACATAGTGTACAGTCATGTCAT</p>
104080	<p>GGGAAATCAAGAAGGCTTCCCTGAGGAAGTGGCATGAAGGCCAAGAGCTGGTAGCTGAG TAAAAGTTATCTAGAAAAAGAGAGGCCAGGATAGGAGTGGGAGGAAGACGAGAGCTCTGG GAGCTGAGAAGAGGCCAGCATGGGTTAGGGAGTGAGGGGATACATGGACAAGGTAATGCA GTAGAGTAGGGACTGACTAGGTCGCTCAGAGTCCCAGTGAAGAATGTTGAGTTGATCCT AAAAGCAGTGGTAAGCATCAATAGGTTGTAATCAGGGTTGTGACTTGATGAGGTTTATAG [C, T] TTTAAAGGATTATTCTGTTGTAAAAATGGGATTATGGAGGCTGAGTTAGGAAACTACT ATAATAACCTAGAAGAGCAACACTTGTGGTTGGAAATAGTACAATGGTAGGCATAGGAGA AATAGATGGATTCTACCTATTTTCCCTATGTTGAGGAGCGTTTGATCAGATATGGTG ACTTACTGGATATGAAAAGTGAAAAGGAGCTTCAGGGATACTCCTAGATTCTGCCTT TTCACCTGGACAGAGGCACTAACACTAACAGGGAGTTGGGGAGGACCAGGTC</p>
104087	<p>TCAAGAAGGCTTCCCTGAGGAAGTGGCATGAAGGCCAAGAGCTGGTAGCTGAGTAAAGT TATCTAGAAAAAGAGAGGCCAGGATAGGAGTGGGAGGAAGACGAGAGCTCTGGGAGCTGA GAAGAGCCAGCATGGGTTAGGGAGTGAGGGGATACATGGACAAGGTAATGCACTAGAGG TAGGCAGTGACTAGGTGCTCAGAGTCCCAGTGAAGAATGTTGAGTTGATCCTAAAGCA GTGGTAAGCATCAATAGGTTGTAATCAGGGTTGTGACTTGATGAGGTTTATAGCTTAAA [G, C] GATTATTCTGTTGTAAAAATGGGATTATGGAGGCTGAGTTAGGAAACTACTATAATAA CCTAGAAAGAGCAACACTTGTGGTTGGAAATAGTACAATGGTAGGCATAGGAGAAATAGAT GGATTCTACCTATTTTCCCTATGTTGAGGAGCGTTGATCAGATATGGTACTTACT GGATATGGAAAAGTGAAAAGGAGCTTCAGGGATACTCCTAGATTCTGCCTTTTCAAC TGGACAGAGGCACTAACACTAACAGGGAGTTGGGGAGGACCAGGTCTTTGGG</p>
105134	<p>TAGGCTGTGGCTATGTTGGCTGGAATGCACTACAGGAACTGGCTGAATATGGAGAT TTGGGAGTCATCAGCATGGATGGCAAAAGAACGCCATAAGTGGCTAAAATGTCCTGGGG CAAGAAGGTAATCTGAAGAGAAGAGGTCTACCCACAGGGCTGGAGAGGCCAC TGACCTCTTCATGGGAAGGGATGCAATTGAGGGCTGAGTCTCCTTGCTCTTTACAC CAAGCCTGCTGAATTCCCTCAAGACAATTCCCTCAATTGCTTATGATCCGGTGGTG [C, T] GCCGGAGCCAGTGCACACTGGTTATGCGAGCTTATTGTTAAATTGCAAGGAATTG AGCCGCTGTTGATACTGCCATGTTAGGAGCAATCACACATGGAAATTGCAAATTCT ACTAATCAAGGTTTAAATTTATTTCCTCTGGAGTGCTGGTTGTTAACATT ACCAGCATATCTCCGTTCTAACCAACTCATTTGCTTCTAGTGCAACTTGTGGGTT TTCCCTTGGATCTGGAGTAAGCATGATCTGTGATCATTCTATATCTCTGGAAAG</p>
105911	<p>TTAGGAGTCCTCATGAGGGCTTAATGAGGTTCTGCTTAGGGACTTACAAGTTAAAAT CAATCGAAAGAAATTCACTGCTGTGAGAGTAGAAACTGAGATCCTGCTGATTAGGCTA CTCTCACAGTGCATATAAGAAACCTGAGACTGAGTAATTATAAAAGAAAAGAGGTTA ATTGGCTCATGGTCTGCAGGCTCACAGGAAGCATACTGGCTCTGCTCTGAGGAGAA GGAAACTTGCAGTCATGGCAGAAGGCATAGGAAAAGCAGGCACGTCTCACATGCCAGAG [T, C] GGGAGGAAGAGAGGGAGGGAGAAGGTGCTACCGCTTTAAAACAACGGACCTCATGAT AACTCACTCATTCACATGAACAGCACTGGGAGTTGGTCTAACCCATTGAGAAACT CTGCCCTCATGATCCAATTGCCTCCACCAGGCCAACCTCCAACACTGGGATTGCAAT TCCACAGGAGATTCTGCTGGGACGCAGATCCAACCATATCACCTGCTTCTTGCCGAC TATTAGCTAGGGGATGCTCTGCTCCTAAAGTCACCTGCATTCTCCCTCCGTGTG</p>

105944	<p>CTGCTTAGGGACTTACAAAGTTAAATCAATCGAAAGAATTCACTGCTGTGAGAGTAG AACTGAGATCCTGCTGTATTAGGCTACTCTCACAGTGCTATAAAGAAATACCTGAGACT GAGTAATTATAAAGAAAAGAGGTTAATTGGCTCATGGTCTGCAGGCTCACAGGAAG CATAGTGGCTCTGCTCTGAGGAGAAGGAACTTCAGTCAGTCATGGCAGAAGGCATAGGAA AACGAGGCACGCTCACATGGCAGAGTGGGAGGAAGAGAGGGAGGGAGAAGGTGCTACA [C, T] GCTTTAAAACAACGGACCTCATGATAACTCACTCATTCACATGAACAGCACTGGGA GTTGGTCTAACCCATTGAGAACTCTGCCCATGATCCAATTGCCTCCACCAGGC CCCACCTCCAACACTGGGGATTGCAATTCCACAGGAGATTCTGTTGGGACGCAGATCCAA ACCATATCACCTGTTCTTGCCTACTATTAGCTAGGGATGCTCTGCTCTAAAAG TCACCTGCATTCTCCCTCCGTGTGGCTCTCCATCTCAAATTGGCAGTGGCATGTTA</p>
105970	<p>TCAATCGAAAGAATTCACTGCTGTGAGAGTAGAAACTGAGATCCTGCTGTATTAGGCT ACTCTCACAGTGCTATAAAGAAATACCTGAGACTGAGTAATTATAAAGAAAAGAGGTTT ATTGGCTCATGGTCTGCAGGCTCACAGGAAGCATAGTGGCTCTGCTCTGAGGAGA AGGAAACTTGCACTGAGGAGAAGGAGGGAGGGAGAAGGTGCTACACGCTTTAAAACA ACTGGACCTCATG[A, G] TAACTCACTCATTCACATGAACAGCACTGGGAGTTGGTCTAACCCATTGAGAAC TCTGCCCATGATCCAATTGCCTCCACCAGGCCACCTCAACACTGGGATTGCAA TTCCACAGGAGATTCTGTTGGGACGCAGATCCAACCATATCACCTGCTTCTTGC CTATTAGCTAGGGATGCTCTGCTCTAAAAGTCACCTGCATTCTCCCTCCGTGT GGCTCTCCATCTCAAATTGGCAGTGGCATGTTAGATCCTTGTAGGATTGATTCCCTT</p>
106134	<p>TCTGCTCTGAGGAGAAGGAAACTTGCACTGAGTCATGGCAGAAGGCATAGGAAAAGCAGGCAC GTCTCACATGGCCAGAGTGGGAGGAAGAGAGGGAGGGAGAAGGTGCTACACGCTTTAAA ACAACTGGACCTCATGATAACTCACTCATTCACATGAACAGCACTGGGAGTTGGTCT AACCCATTGAGAACTCTGCCCATGATCCAATTGCCTCCACCAGGCCACCTCC AACACTGGGATTGCAATTCCACAGGAGATTCTGTTGGGACGCAGATCCAACCATATCA [G, A, C] CTGCTTCTTGCCTACTATTAGCTAGGGATGCTCTGCTCTAAAAGTCACCTGC TCTCCCTCCCCTGTTGCCTCCATCTCAAATTGGCAGTGGCATGTTAGATCCTTGT AGGATTGATTCCCTTGACTTCTCCTGCCCCAGCAGACAAAGCTCTGCTTGA GGGCTGTGTCTATCAGTCCTACCTGGATAACCTTCTGCTTGTCTTGC CCTGTGTTAGTCTCTAGGCTGCTGAACAAAGTACCAACAAATGGGTGGCTAAAGCA</p>
106148	<p>GAAGGAAACTTGCACTGGCAGAAGGCATAGGAAAAGCAGGCACGTCTCACATGGCCA GAGTGGGAGGAAGAGAGGGAGGGAGAAGGTGCTACACGCTTTAAAACA ACTGGACCTCA TGATAACTCACTCATTCACATGAACAGCACTGGGAGTTGGTCTAACCCATTGAG AACACTGCCCATGATCCAATTGCCTCCACCAGGCCACCTCAACACTGGGATTG CAATTCCACAGGAGATTCTGTTGGGACGCAGATCCAACCATATCACCTGCTTCTTGC [C, T] GACTATTAGCTAGGGATGCTCTGCTCTAAAAGTCACCTGCATTCTCCCTCCGT GTGGCTCTCCATCTCAAATTGGCAGTGGCATGTTAGATCCTTGTCA AGGATTGATTCCC TTTGACTTCTCCTGCCCCAGCAGACAAAGCTCTGCTTGA AGGGCTGTGCTT CTATCAGTCCTACCTGGATAACCTTCTGCTTGTCTTGC CATACCCGTGCCTGTGTTAGTCTC CTAGGGCTGCTGAACAAAGTACCAACAAATGGGTGGCTAAAGCATTGGGAATGACTTA</p>
107058	<p>AAAGACCTTATTCCAAATAAAGCTTATTCACTGAGGACTGGAAAGTTAGGACTTCAACAT ACCTTTTGAAAGGACCAATTCAACCCATAACAGTGC ATGTTCAACAAATAGAACATAAT CACATGAATGGTACTTCATCATATTCAATTGGTCCAGGGGTTACGGC ATGGAATATTGGG TGGTGGAGGAGGCAATTAGAATTCTGCTTACCATAGTCT CAAAGGTGCCCTTAAATA ATTGTCTCATCTGCTGACTTACCTAAAATAGATCCC ATGTCATCCATGGTGCCTCTTG [A, G] ATGACCTCAGTTATAACCTGTTCTCTCCCTCCAGTTGAGTATTGCTG GCCTAACAA ACAGGACTTCTCATGGACTGCACTGTTCTCCTCCAGAGGGACAGACTC TAGAAACTC AGTGCCTGAGCTGATTACGATATTGGTACAAGACACAGTGA AAAATGAAGAAC ACTCTTCCA TCCTCAAACATGACCAATTGCTTCAACCCAGCA AAAGGAAAGTTGCTT TTTTATTCTTCTTAAATTGTAAGGC ATATAACAAATGCTCTGCTT CTTCT</p>
107310	<p>GCTGACTTACCTAAAAATAGATCCCAGTCATCCATGGTGCCTCTTGAATGACCTCAGT TTATACCTGTTCTCTCCAGTTGAGTATTGCTG GCCTAACAAACAGGACTTTC TCATGGACTGCACTGTTCTCTTCCAGAGGGACAGACTC TAGAAACTCAGTGCCTGAGC</p>

	TGATTACGATTTGGTACAAGACACAGTGAAAATGAAGAACTCTTCATCCTCAAACA TGACCAATTGTGCTCCAATCCCCAGCAAAGGAAAGTTGCTTGTCTTATTTTT [T, -] TTTCTTAAATTGTAAGGCATATAACAAATTGCTGCATTTCTCATGGTTTG GTTGGAAGATGTCTCCCTTCCCCAGCCGCTGCTGACCTCACTCTTAGCACACTCAG GCTCAGGCTGGAGTCATCTATGCCACCTGTGATCTGCCCTCTTTCATCTTCCC CAGAAGCACATTCCCACCATGAGTGATGCCATGTCACACTGGCTAAATTG CACGGCACTTAGAGTCCTTATCTCCCCTCCAGATGTCAAGCAAATTAAAA
108283	TGTTGATTTGTACCCCCAACAGATGACATGACACCCCTAGAGTCAGGAGGCTGGTCTTA TTGGCGAGGTAAGTCCAGGCATATCTGGCTAACAGGACCCATGGAAACCAAAGC TTTGTGTTGTGGGCATTCTGTGAAGAAAGGATGATGAGGCGTCTTCTGAGGAAGGAA TTGAAACGATACCTTAGATCTCATTACCTTTGTCAAAGGCAGAGTCAGGCAGGGTGAC AGGCCAACGTTAGAGTCAGTAAGCATGAGCTCAGTCATGCTCAATGCTAAGGGTGTGGC [A, G] TACAAAACCAGGGACAAATCAGCTAACTACTTTCTTGCTGCAAATGAAAGCTCAGTT TCTCTCCAGGGACACTCAAGGATCAGATGAGTTCACAGAAATGAAAGTGTAAAGACTTC AGGAAGAGGAGGATGGTGAGCCAGGCCAGGCAATAAAAGACTCAACGTAAGCCTTCA ACTGAAATGGGCCAGGACATGCTTAAAGACTCCTGCTACTCCTGTAGCAGAGCA AATATTGATTCAATGCTCAAGTGTATGAAGGCCCTATACATCCCCAGCCTTTCCCT
109168	AGCATGTCAGAGGCCAACATCCCAGCACAGGATTAATCAGTGAGCCTGTGCTCAGTC ACAGAAGGAATTGAAAATCATGTAAGAGTGTGCTTCACTGAAGCAAATATGAGTTGTAC TGTTATGAACAGCACATTTCAGCTGAACCTAGGAGGTTGATTCTGGGTTTGA TTGGGAAAGCAGTTGTAATTCCAATTGTCAGCTGATACTAGACGCCAACCTCA GAGCCGGATCACAGATTAGATGCTTAAAGACTCCTGCTACTCCTGTAGCAGACTCACACACTC [G, -, T] GT TTACTTACTAGGGAAATCCTACCATCTCCAGGGACTTCCAGGGACCCAGTGATGTGTG TAGCCATGAGAGGGCTCTGTTCAATGGTCAGATCCTCCAGAGATTGAGCTAAACAG CCATCCCAGGACATTAGACAGGGATGGCGTGAAGCTGCTTGCAGATCTCTGTGTGA GTTTGAAACATGGTCATGAGAAGAATTGTTATTCACTCAGTCAGTGTCAACTGTGTGGTCG
110938	CTTCAGAAACCCTCTGACCACTTAGTATGCGTTCAGCAGAACACCTCTAGATAAAAT CTTCATGCGAATTCTTCTGTAAACCTTCACCTAAATCTGGTCTTCTGAGAGCAT CTCTACTTAGAAACATTCTTTAGTTGTTAGTGTATAACCCTGTTCTATTATGCTTGC TTAAAGAGCAAGGGAAATGTAGGCAGGGCTCTCTGGAAAGCAGCAAGTTCATGC CTGGGTCTGAATCATATTCTAAGTTATCAGAGATGGATGTCTATGCATCATAGACTCCA [A, G] TCCCCCAGTGCAGGTCAAGGGTTTCAGCCCCAGTACCCCTGCTGCCTGCGTGACCC CACAGATTCAAGGATCTGATGTCAGGCTGAGTGAGGAGGATAAGGAACAAGC CTCAGGAGCTGCTGAGCTGGCTGAAGGGATGCAAGGGCTCTCCCTGCCCTCAGGC AAACACAGAAAAACTCTCAGCAGTATGGCTACCAACTACTGAGCATGCACATATGT GTTCACTGAGCTCTATGTATATTCTGATTTCCCCAACCCCTATGAGATAGGCTT
111713	AGCTAATGCTGGTAGACCCATTGCTCAGAGCTGGCACCGTGGCAGTGCAGTGAG GATGGGCCAGGGAAAGAGATTCTGGTTCTTGTCAAGTATAAGTATGTTATAGCAGC GCACCCATGAAGGAACAGCAGACCCCTGGCTGAGGTGGCAGAGGCTTGGGAGCCCA GGTACCCCTAGGGACAAGTGAGGGAAAGGATTGGGTAGGGCTGGCTAAGACCAGAAG ATGGCGGGAGGCAGTAAGGGGAGTCAGGGCTTGGCAGTCAACTGGACGTACAGGG [G, A] GGACAAGAGCAAGACTAGCTGCTGAGTGGAGAGGGCGGGACAGTGGCTTACGATGGCTT GGTGGGAAAGACTGGCAGTGCAGCCTGGTTGCAAGTGGTTGAGCGTCCCTAGAACCT CCCTCTGGACAGCCCCAGTCTCAGAATGGGCAAGGCAGGGAAAGAGCAGGCCAGGA TCACCTCCCTCACTGCTCGTGTCCGATTCTATGGAGCCTCCATGACATTCA TGGGCATCTGGAGGGATTGTGGCAGAGATACCACGTCAAGGAATGCAGGAGCCTCC
113984	TTCACTTCCATGTTGATAAAACATTGCTAAGATGCCTAAATGCAAGCCGGTGC CCTCTGTGTGCCAGAGGGATGTGCTCAAGGTGAGAGTCAGGAGCAGGGTTCTCAGC ACACCCGGGCCACAGGCCCTCTGTAAATGTCAATTGAAATAATGTGCACATAAA CCAGGTCTACTCTCAAAGGGATATCAGGATTACACATTCTCACATACAGTTAGCC CCATGGAATTCAAGACTAAGTTGATCAAAACCTATGATAGGAATCCCAGAAGGTCAAAGA [T, C]

	GCAGTTGTTAACATTTATCTTAAAAAATTACTGCCCTCAGGTATTCTGGTGGCA GGATATCCAAAATGCCTGAAATGTGCTTCAGCGCAGGACTCCGTTGTGTTAATGTC TGCTGGGACATTAGTAACACACCAGTGATTCACTGAGCTCACCTGTGATGCTAG ACTTGGAAAGCTTTAAGGAAATTAAACATCATACAAACACAGTGTGAAAAAA AAAAAAAAAAAGATATCACAAGTATCATCTTAGGCAGGATAACATAGTGTAAAGCCCCAG
115302	TGGCCTGCACAATACAGAAAGGATTCTACTTAAGGCTGAGACTGGGAGGACTGCCCTC TCTGTGAAAATGGGACTAAGAAAATTTCACCTAATGGTCAAGGAATGTGCAAGTAGCT TGTGGCTGCCTAGACTTTAACCCACATTGAATTACACTACTACACGTACAGAAATT CTAACCTAGAAATAAAACTAAAGATAGGTCCCAGATCAGTAAACCAACTAGAGCTCCTA GAGAAATACATGCAAACCCATTATAAAGGACAATCTCCACACCAGAATATACAGGATGCC [G, T] ATGGGAAAAAGAAAATCTCAACCTACAAACATAAAATTGAGATCATAAGGAACATAATTG CCATCGGGAAAGAGTTAACCCAGACTCACACACTGGGTTAGCTCCTTCAGAATCTTCAC GTAATAAAACACAATGTAAGAATTCTATGTTGAAATTATTAGAATA ATAAAAAGAAGAGAATTATAAAGAAGGAATTGTAGGGAAAAACAAGCAAATTGGAAAA GTAGAATTCTAGAAATTAAACATTATTAAATTATAACATAAAATGATTAAAAACA
115352	GACTGCCCTCTGTGAAAATGGGACTAAGAAAATTTCACCTAATGGTCAAGGAATGTG GCAAGTAGCTTGTGGCTGCCTAGACTTGAACCAATTGAATTACACTACTACACGT TACAGAAATTCTAAACCTAGAAATAAACTTAAAGATAGGTCCCAGATCAGTAAACCAACT AGAGCTCCTAGAGAAATACATGCAAACCCATTATAAAGGACAATCTCCACACCAGAATAT ACAGGATGCCGATGGGAAAAGAAAATCTCAACCTACAAACATAAAATTGAGATCATAAG [G, T] AACTAATTGCCCCATCGGGAAAGAGTTAACCCAGACTCACACACTGGGTTAGCTCCTTC GAATCTTCACGTAATAAAACACAATGTAAGAATTCTATGTTGAAATTATTAGAATA TATTAGAATAATAAAAGAAGAGAATTATAAAGAAGGAATTGTAGGGAAAAACAAGCAA ATTGGAAAAGTAGAATTCTAGAAATTAAACATTATTAAATTATAACATAAAATGA TTTAAAAACATATTAGGTACAGCTGAAGAGAGAATTGTGAACAGGAAGATAGCTCTGAA
115804	AGAAGGAATTGTAGGGAAAAACAAGCAAATTGAAAAGTAGAATTCTAGAAATTAAAC ATTATTAAATTAAATAATACAATAAATGATTAAAAACATATTAGGTACAGCTGAAGAGA GAATTGTTGAACAGGAAGATAGCTCTGAAATTACTCAGGAAAGAGCTCAGAGAGACACAA AGATAGAAAATATAAACAGATATTAAAGAGAAAATTAAAGATATTGAAATTAAAGAAA TATTGTTAAAAGATATTAAAGAGTTGTGAAGAACAAAGTAGGGTAGTCTATAAGAAAAG [C, G] GTAGAGGAAGTGAGGGAGAAGAACACTGGAAATGATAATAGCTAGACCTTTCCAAAAT TTTTTAAAGATATAATGCTTAGATAAAAGCAGCACTCCAAATCATGAACAGTATAAAAT ACAAATTATGTACAATGATCTGCAGAATACCAAGATAAAAGTGCACAAAGAAGAAAA AAAGATTCTGCAAAGGACAATTCTAATTGCAAACCTCATTAGCAACATGGAAGCC AGAAGGCAATTGAATAATATCTCTAAACAAATGAGGTAAAATAGTCACCTAGAAATTCTG
115862	ACATTATTAAATTAAATAATACAATAAATGATTAAAAACATATTAGGTACAGCTGAAGA GAGAATTGTTGAACAGGAAGATAGCTCTGAAATTACTCAGGAAAGAGCTCAGAGAGACAC AAAGATAGAAAATATAAACAGATATTAAAGAGAAAATTAAAGATATTGAAATTAAAGA AATATTGTTAAAAGATATTAAAGAGTTGTGAAGAACAAAGTAGGGTAGTCTATAAGAAA AGCGTAGAGGAAGTGAGGGAGAAGAACACTGGAAATGATAATAGCTAGACCTTTCCAA [A, C] ATTTTTAAAGATATAATGCTTAGATAAAAGCAGCACTCCAAATCATGAACAGTATAAA ATACAAATTATGTTACAATGATCTGCAGAATACCAAGATAAAAGTGCACAAAGAAGAA AAAAGATTCTGCAAAGGACAATTCTAATTGCAAACCTCATTAGCAACATGGAAG CCAGAAGGCAATTGAATAATATCTCTAAACAAATGAGGTAAAATAGTCACCTAGAAATT TGTTGAGAGTGAGGGCAAAGATACTCTGTATAAGATTTAGAGGTACTGAAGAGG
118203	ACCCATACACTGGAAACTAAAAACATATTGAAATAACTCAAGGATCAGAGAATAGG TCCTAACTGAAATCGCTGAAAGTTAGAAGCAAGCAATAATGAATTCACTACATATTCAA GTATATAGGATGCTGCTAAAGCAATACTGGAGGAAAAGTTAGCCTCAGTATAATT TAGAAAATTAGAGCCAGTAGTCATCTAAACATTAAAATAAAAGAAAAGAGCGTGC CTTAATAGAAAATAAGAAGCAATAGTGAGGTCAAGAAAATCAAATCTGGCCCCCTGG [A, -] AAAAAAAAAAACTTTAAAATTGTCAAACCTCTGACAAGACTGGCAGTAACGCTTATG TGCCAGAGACTGTTCTATGTGAAATTATGTTAATTCACTCAAAGTCAAATGACCTAA GAAGTAGATCAGTTGTTATTAAATTCAACACACAGCTACTAGTACTCTGTGACACCTGA

		ACAAAAACACTTCTATTGTAGGACATTCCGGCATTTCATGGCACCCCTGCAGATTAAAA AAAAAAAAAAACAATGAGGCAAAGATGGGAGACTTATGAGGAAAATACATGTAACCAGAGC
124933		GTGGACATTCTCGCTTGGAGGCCTGGCAGGCTGCAGGGAGGAGCCACAGACAGGAAAGCC TTTATAGCCAGCACCTCTGTAGTGCAGAATGCTGGCAAGGCCTGCCCTGGTGAGAGC CAAGGAGGCAGCCTGGGAGCTGTATAACAGAACTGGCAGCAGGAAAGGATTATTCCT GCTGAGCATGTTCTGCCCTACCCAGAGGCCCTACCTGCCCTGGAGACCTACTGATGTC TCCCACCTACCATGTCCGCCTGTGCCTACTGAAACACAAAGACTTATCATGAGAACGTC [C, T] GAAGCACAAAAGGAAAAGGCTGGATCATGACCTGCCCTGCCCTCAGGCTAAATAATG AGGCAACTCTGAAGCCAGTGTAGAGGTAACACTGTGATGAAAGAATAGATGATAACTAG CCCATCCACGGGGACTGGAGTGCCTAAATGGTCAGGTTAAAGAGGGTCCAGTCAG AGCCCCAGCCAGCTTATCCTAGCCCTTTATTGGGATGGGTCTAGGAATGGCTCTGC AGTCCACACACATGTAGGGCATGTACACTTGCATCCCTGAACAAGGCCGGCTCTGTC
126402		ATTTCTGTGAACCTTGAGGGCCTGCAACAACCATTGGCTGAGCCCAGACTAACCTCTGGG CAGCCCTACCCCTGCCAGTTATGTTCATGGGAGCCTGATTATTTAACAGATTCTCC TATTGTTCAAGTTGCTTGTAGTAAATGTTGCTCTGCAGCATTGATGCTAGGGTAGTGCCA GCCAGAAACCTGTCAATGCTCAGATCTGGCTCTTGGCCAGGATAGTCTGGATTATCA GAECTGGTTATTTCTTGCATTGCAGTCTGGCTCCTGATTATCTTCAAACACACA [C, T] TTGCATGGCATTCCCTCCATACTGAGCAGATTCCATCAACAGTCTTGGGATTCCACTTT TCCTTGCAATATGGACTTTGCACTAGTTGCATTAGCTTTGCTAGTGAACACTGGCACT GCATCTGCAGGAGACATGCCAGACCCAGCACAGTTCATCTCAGATGTTCCCTTT CCATGTTGGTGGCAGCTCCTTGCCTCCCTCTCAAGATAAATCCCCAAAGC TTGGACCCAGCAGCTTCTGCCTATTCTCATGGTTTGTGGGATGAATGCCTTAGAT
127387		GGCGCAATCTGGCTCACTGCAACCTCTGCTTCCCAGGCTCAAGTGAATTCTCCTGCCCTCA GCCTCTCAAGTATCTGAACTATAGGTGTGCCCCACCATGCCACCTAATTTTGATTT TTAGTACAGATAGGTGTTTGCCATGTTGCCAGGCTGGTCTCAAACCTCTGGCCTCAAG TGATCCACCCACCTCAGCTCCCCAAGTGTGGGATTACAGATGTAACCACCGTGCCTG ACCAATGTTGATAGCTTGAATGATCAGTCTCAGAAATAAAACTTGCATCCAGATTA [T, A] CGCCAACCAAGAGTAAACATCTCAAGGCCAGAGAGCAACATGCTCACTGCTCATGGAGT CACATGTACTGACCTCAGGACATCCTGGTAAACAGCGCAGTGACAGCCCTGGCAGGC TAGCTTGTAGGGTTATTAGGCCAACAGCCACGGCCCTCCAGGCTGGGTTCCACTGG AACCCAGGGTTACTCGGACCGTGTATGTCATGGCTGGCTGCCTCCTCCACACA CGGGGCGTAAATGTGATGTCGGCACCTGCTGTTGGTGTGGAGCTGCTCTTCTT
128453		CAGTGGCGAGGATGACCATGAAGCATTGGTGGTATTAAAGTGCCTCGGTTCTGCG AGAAACTCAAATAGTAATGGAAATTTACATATGGCTTATTCTGCACCAGGTACA GGTCTCATGGTAAAGGTTAATATTGGTCCCGATTGTCAGATGAGGAAACGGAGGCT TACAGAGGTGAAGTAATTGCCAACGGCATCAGGCCAGTTAGTGGTGGAGCTGAGATT GAACCCAGGCAGTGGCTCCAGGCTGTGAGTCCCTCCCCATCTGCCTACTGCATGCC [G, A] GTGGTATGACCAGCAGGGTCAACTTCGCTGGGTCACATCTGCCCTTCTCCCTGCA TCGGTGTAGGTCTGTCAAAACATTGCTCCATTGGATCTTATAGGGAGGGTAGAGTG TCCCGTCTTTCTAATTGGAGTTTATTCAATTATTGTTAAGCAGATAAA AGACACATTAGCCACACTGCTGTGCATTCCAAAGACCACAGGAAAAAAACTCAAAAC TCATGGCATTAAACATAGTATTCTAACAGCTTATTGGATATAATTACATGC
128584		GAAAGGTTAATATTGGTCCGATTTCAGATGAGGAAACGGAGGCTTACAGAGGTGA AGTAATTGCCAAGGGCATCAGGCCAGTTAGTGGTGGAGCTGAGATTGAACCCAGGCA GTCTGGCTCCAGCCTGTGAGTCCCTCCCATCTGCCTACTGCATGCCGGGGTGGTATGAC CAGCAGGGTCAACTTCGCTGGGTCACATCTGCCCTTCTCCCTGCAATTGGTGTAG GTCCTGTCACAAACATTGCTCCATTGGATCTTATAGGGAGGGTAGAGTGTCCCCGTCT [T, C] TCTAATTGGAGTTTATTCAATTATTGTTAAGCAGATAAAAGACACATTAG CCACACTGCTGTGCATTCCAAAGACCACAGGAAAAAAACTCAAAACATGCCATTA ACATAGTATTCTAACAGCTTATTGGGATATAATTACATGCCAGAAAATG TCCATTGGTACAAGTCAATGATTGGTCTGTTGCAGAATTCTAAAATTAGTT TGTCACTACAATCTAACATTAGAACATTTCATCACCTGCAAAGAAACTTGATGCCGAT

FIGURE 3, page 144 of 188

128680	<p>GGAGCTGAGATTGAACCCAGGCAGTCTGGCTCCAGCCTGTGAGTCCCTCCCCATCTGCC TACTGCATGCGGGGTGGTATGACCAGCAGGGTCAACTTCGCTGGGTCCACATCTGCC TTTCTCCCTGATTCGGTCTAGGTCTGTACAAACATTGTCCCATTGGATCCTTATA GGGAGGGTAGAGTGTCCCCCTTTCTAATTGGAGTTTATTCAATTATTG TTTAACGAGATAAAAGACACATTAGCCACACTGCTGTGCATTCCCAAAGACCACAGGAA [A, -] AAAACTCAAAAACATGGCATTAAACATAGTATTCATTTCTAACAGCTTATTGGGAT ATAATTTACATGCCAGAAAACGTATCCATTATGTACAAGTCATGATTTGGTCTGT TTGAGAATTTCTAAAATTAGTTGTCACTACAATCTAATTAGAACATTTCATCAC CTGAAAAGAAACTTGATGCCGATATCCAGGCACCCCCATGCCACCCCAGCCCTAGGCA ACCCCTAACTCACTTTTGCACTGTACTCTGCCTCCTGGCATGTCTCACATGGAC</p>
129116	<p>AAATTAGTTGCACTACAACTAAATTAGAACATTTCATCACCTGCAAAAGAAACTT GATGCCGATATCCAGGCACCCCCATGCCACCCAGGCCCTAGGCAACCCCTAACACT TTTGCACTGACTCTGCCTCCTGGCATGTCACATGGACTCATACACAATGTGT CACTTGTCTGACTTTCTCCACTGGCACAGTGTCTTGAGGTTCTCCATGTTGTTG CATGCTTTGGTGTGAATCATATTCCATCACATGTGCCACATTGTGCATCCGTT [A, G] TCGGCTGATGAAACATCTGGTTGCTTCACTCTTGGCTATTGTATTACCCCTTTAGAT GGAAAAAGAACTGCATCCTAGAGAAAGTCTACGGCCTCGGTATAGACATCATCAGTGGAG TCTGGCTGGCCAGGCCGGTGCCTCTGGTGTATTCACTCAAATAGGTGTGAAACTGA CACCTAFTTACTCCTTTTGCCCCAGCACTGGGCTCAGCCCTGGGAGCCTGAGCAA GTAAAGACGCACATGGTCCCCCCTTCATGGGATTGTCACTGCAGGCAAGCAGTAAGTGAGC</p>
129549	<p>AGGCCGGTGCCTCTGGTTGATTCACTCAAATAGGTGTGCAAAACTGACACCTATTTACT CCTTTTGTGCCAGCACTGGCTCAGCCCTGGGAGCCCTGCAGCAAGTAAGACGCACA TGGTCCCCGCTTCATGGGATTGTCACTGCAGGCAAGCAGTAAGTGAGCAAATCAAGGCAG GTGAGTGTAGGTAGTGATGAGTGTGGGAAGGAAATCAAATAAGATAATGTGGAGACAT ATAATAAGGACTTTAGAATTTCATGCTTTTAATTAGTTAAACTTCTCTCAATTCT [A, C] CCCGGCAGTAGACATTCTATTAAAGAATTATCCAATACATTCACTTTACAT GGAAAATGTGCAAAGATTGAGAGGTGAGAAATCATTTTATCTGTATGCTTAGGGACT GAGACACTGCTGGATGGCGGCTCTCCATACTTGTGGGTCAGTGAAGGACTC CTCGCTCCCTGCCACCCCTGCCAACAGGCACCCCTCTCCATTAGCAATCCGG GTCATCGCAGAGGCCTCAATAGCCCCAAGCAGAAACTGCACTCGTGTGAGCAAATT</p>
129820	<p>TAATTTAGTAAACTCTCAATTCTACCCGGCAGTAGACATTCTATTTACTTAA AGAATTATCCAATACATTCACTTTACATGGAAATGTGCAAAGATTGAGAGGTGAGA AATCATTTCATCTGTATGCTTAGGGACTGAGACACTGCTGTGGATGGGCGGCTCTC TCCATACTTGTGGGTCAGTGAAGGACTCCTCGCTTCCCTGCCACCCCTGCCAAC AGGCACCCCTCTCCATTAGCAATCCGGTCACTCGCAGAGGCCTCAATAGCCCCAAGC [A, T] GAAACTGCACTCGTGTGAGCAAATTACCCAGTTCTGGCCATGTAGAAAGCTAC AGTTTACTCTCATGAAAATTAAATCTTGTCTGATCTGTAGTAAGGAAAGGATGA GGCAACTGGAGGAACTCAGCTATTGTGATCAGGAGATGATAAAACTACACATTCTT GACTCAGGGATCAATGGAGAATCTTAGAGAGAAACTCACAGAAGAAATTAGATTAAAT TTGCAAGCCTGTAATATGGGAATGCATTCTAACAAACTACAGCAAATAAGGCTCTCC</p>
129934	<p>GTGAGAAATCTTTATCTGTATGCTTAGGGACTGAGACACTGCTGTGGATGGGCGG CTTCTCTCCATACTTGTGGGTCAGTGAAGGACTCCTCGCTTCCCTGCCACCCCTGC CTAACAAGGCACCCCTCTCCATTAGCAATCCGGTCACTCGCAGAGGCCTCAATAGCC CCAAGCAGAAACTGCACTCGTGTGAGCAAATTACCCAGTTCTGGCCATGTAGA AAGCTACAGTTTACTCTCATGAAAATTAAATCTTGTCTGATCTGTAGTAAGGAA [A, G] GGATGAGGCAACTGGAGGAACTCAGCTATTGTGATCAGGAGATGATAAAACTACACAT TTTCTGACTCAGGGATCAATGGAGAATCTTAGAGAGAAACTCACAGAAGAAATTAGA TTAAATTGCAAGCCTGTAATATGGGAATGCATTCTAACAAACTACAGCAAATAAGGCT CTCTCCTGAAAATGCATTATTATCCCCGCTGTTACACAGCTACGGATGCTCCTTCC GTGGTCTGAACCGAGTGGGTATGGAAGCAGTCCAGAGACAGCAGACTGCTCACCAAT</p>
132304	<p>AAAATTACAGAACCTCTCCACAAACAACATTCTCTCTAACACTAGCTTCCCATCATGCAT GAATATTACACCTGCTTAAATGCTGGGATTGGAGGAACAAACTTTGTTCTCAGTCTT AAATTTCCTGAGAGCTATGAAAGCATTGGTATAACAAATGTGCTGCTAAACTGAGGGCT</p>

	TGACCAGTGTTCATGTCAAGCCCAGTCAGCCATGCATGAAAACCAAACGTCAATGTGGT ATACACAAGACAAGCGGTCGAGGGGCATAAGCTCGTGCCTAAGATGTAGCACTCACT [A, G] GCCGCCAGTTCTTCATCTTTGTAACTGAGCTTAATGAAATTGCCTCAAGCTGAAT GACAGAGCCTCCAAAGGTTGGAGACTGATTCCATTGGTTAGCTGTTAGCAAGCCTC TTATCCGGGAGTGATGATCTCATTTTGCCTCTGCTACTTCCCTTCCTCGTCCT ACCTTCTGTCGCTCAGCACCTTCTTGCCTCTGCTACTTCCCTTCCTCGTCCT CCTCCTTCCTGAACCTTGCTCTGTCACCCACCTACCCCTGCCAC
133008	CTCTCACACACCGGTGAGAGCAGGGTAGCAGAGGGCTCACGAATGCAGATTCACTCAC AGGCAATTGTGAAGTAGCGGGGGAGGGCTGATTATGCAGACCACTCCAAATTCAATCTC CCAGTTATGTTATCACAGGAGCTCATGATGGAAGCACCACCGATAATTCCGACTTGCC TATTACTTATTCTTTATCTAGAGGAATAAAGAGAAACAATTACCTTGGTGTGACATTCT GCCATCTCTACAAAGCCACCTGCACCTGAGACTTTGCCAGCAGCAGAAATAACGAGTTAA [A, G] TGCTAAATATTCATAGAGAACAGAGAGTAGCAGGGCTATTGAAAATAAATTCAAAAGACCT TCATGTATTCTGGTCATATATCCCTGGCATAAAATTCTCCAGAGATAAAATAGCTTCT GACAGGAGGGTTGTGGCAGGGAGGGGGAGGCACGGTACAGGGAACAGGGAAAGGCAGCCC TGGAAAACCTCCTGGCCTCCCCGTCTCCACGGTGGACGCCCTTGTGAAAGCATCT TTGAAATGATTGAGGTTGAACTATTACTGCAGAGCCCTTTCAATAATGAATTAAATT
133347	TGAAAATAAATTCAAAAGACCTTCATGTATTCTGGTCATATATCCCTGGCATAAAATTTC TCCAGAGATAAAATAGCTTCTGACAGGAGGGTTGTGGCAGGGAGGGGGAGGCACGGTA CAGGGAACAGGGAAAGCAGCCCTGGAAAACCCCTCTGGCCTCCCCGTCTCCACGGTCGGA CGCCGCTTTGTGAAAGCATCTTGTGAAATGATTGAGGTTGAACTATTACTGCAGAGCCCT TTCAATAATGAATTAAATTATAATGACATTGGTGTGTCCTCTCCACCT [A, G] TTGGTAGTTAACTGGGAAAATTGATGGTTTGTCAAGGACGGAGCAAATTCTCGGGAA CAGGAGCCTGAAGCTTAGTTTAGTCTTAACCTGAGACATGTGACGGACGTCAGCTCCC CTGCTTCCCATACTTAAATGCTGCCCCGGCATGCTCTGGGCGAGCCTGGCTGCACA CGAGGCTCACAGCCTGCTTGACACATGAGCTGAGGCATTCTTTTATTCTCTCTG CTGAGGACAGCCTTGGAACCTAACATTAGGATGACTTCGGGCCACGGAAATGACTTGG
133374	TATTCTGGTCATATATCCCTGGCATAAAATTCTCCAGAGATAAAATAGCTTCTGACAG GAGGGTTGTGGCAGGGAGGGAGGCACGGTACAGGGAACAGGGAAAGGCAGCCCTGGAA AACCCCTCTGGCCTCCCCGTCTCCACGGTGGACGCCCTTGTGAAAGCATTTGAA ATGATTGAGGTTGAACTATTACTGCAGAGCCCTTCAATAATGAATTAAATTATAAA TGACATTGGTGTGTCCTCTCCACCTATTGGTAGTTAACTGGAAAATTGATG [T, C] GGTTTTGTCAAGGACGGACCAAATTCTGGGAACAGGAGCCTGAAGCTTAGTTTAGTTC CTAACTGAGACATGTGACGGACGTCAGCTCCCTGCTTCCCATACTTAAATGCTGCC GGCCCATGCTCTGGGCCAGCCTGGCTGCACACGAGGCTCACAGCCTGCTGTGACACA TGAGCTGAGGCACTCTTTTATTCTCTCTGCTGAGGACAGCCTTGGAACCTAACAA TTAGGATGACTTCGGGCCACGGAATGACTTGGTTTCCCGCGAACACTGTGAGGCTGA
133636	CTCTCCCACCTATTGGTAGTTAACTGGAAAATTGATGGTTTGTCAAGGACGGAGCA AATTCTGGGAACAGGAGCCTGAAGCTTAGTTAGTCTTAACCTGAGACATGTGACGGA CGTCCAGCTCCCTGCTTCCCATACTTAAATGCTGCCGGGCATGCTCTGGGCCAGC CTGGGCTGCACAGGAGCTCACAGCCTGCTGTGACACATGAGCTGAGGCATTCTTTT ATTCTCTCTGCTGAGGACAGCCTTGGAACCTAACATTAGGATGACTTCGGGCCAC [A, G] GAATGACTGGTTTCCCGCGAACACTGTGAGGCTGAGTCCCCCATGGGTGTTGGAG CACCGGAGGAAGTGGGTGCCATCAATTAAAATTACGGGCCTCGTTCATGAGATACTTAT CACTCAAAACTGCAAAGCAGTGTGTTTGTGCTACTGCGTTAAAGGAAGCTGCTAAC AGAGGAGAGATAATTAAAGAGTAATCATTGGTGAGGCCAGTCCACTGACCTGGTG CTGGAGTTCTCTCATGGCATCAACCATTGGCAATTAGATGTGCTTCTTATTAA
134315	CACGAAAGCCATGGAGTTTGGCCATCCTTGAGCACAGAACATGCCTTAATGACAGCTACA GAATAGAACCATTAACAGAAATGAGCAAATCCTGGCATTTCCACTGGCCTGTGCATTTC TCAGTGCAGTGAGCTAGGGACACTCCTCAGGGGGCTACAGATGAAATGCCAG CCTGAACCTGTGTTCCGGGGGTGCTGTGCTCTAGCTGGCAGTGGCAGTGCAGTTC TCAGCAAGAGCCTGGCCCTGTCTCCGTTGTTCAATTCTGGCAGCAGCGTGGAGGAC [A, G]

	TGATGAGAGAGGGTGTGCAGGGTCAAAACTGGGCATGGAGGGATTGTGAATGTC CCATTCCCTGGTTATTAGGCACCACCTGTATGCAAGAGGCCACCCAGATGCTGCACTCC CCATGTCTCAGCTCCCCCTGAAGATGAGCTAAGGTGAAAGAAAATACAGCAGGCGGAG TTGAGGTGAGATTAGAATCTGTTACTGTGGTTAGATCATACCATCCCTGTAG CAAGATGACATGGTTGGCTGTGCCCCACCCAAATCTCATCTTGAGTTGAATTCAA
136612	ATATTGAAAATGCTTCATTCTGACTTGTACTTGATITGACAGATCGGCTGGATATAGA ATTCCAGGGTGAATTTTCTTCTAATAGTCAAGATAGTATAACTGCTATATAACCCC AAATATCAGTAGTATAATACAGTTATTGTATACTCACAGCACAGCCTGCTATTCCC GATGGAGTGCAGGAGTTCTGCTCCACACGGTAATTCTGAAACCAGATTCTTCTATAG TGTGGCCCCAAGGTCACTATGGACAAGGGATGAGAGGGAGATTGAAAGAACATGGAAAA [A, G] GCCCAGCAGCTTAACTGATCCAGGCCAGAGGTGACGTATCATTCTACTCACACCC ATGTGAGACCTAGTGGATGGCCCTCTAGAGCAAGGGGATGAAAAGTGTAGTGTAA CTGTGTATCCAGGAGAGAAAACCACACCGTCATACTTTAAAGGCATCATTTAAGCA AGCAGTGTATTGGTAAAAGTCCAATGCTAGACTGATCCTTATTCTGTGGGTGACCC ATTTAATCTATCTGGAAGCTATTAGGATCATCCCTGTGTTAGTCCACTGAGGCTACTATA
136839	ATTCCTTCTATAGTGTGGCCCCAAGGTCACTATGGACAAGGTGAGAGGGAGATTGAA AGAACATGGAAAAGGCCAGCAGCTTAACTGATCCAGGCCAGAGGTGACGTATCATT TACTCACACCCGTATGTGAGACCTAGTGGATGGCCCTCTAGAGCAAGGGGATGAA AAAGTAGTGTAACTGTGTATCCAGGAGAGAAAACCACACCGTCATACTTTAAAGGC ATCATCTTAAGCAAGCAGTGTATTGGTAAAAGTCCAATGCTAGACTGATCCTTATT [C, T] TTGTGGGTGACCCATTTAATCTATCTGGAAGCTATTAGGATCATCCCTGTGTTAGTCCAC TGAGGCTACTATAACAAAATCGCATGGCTGGTAGCTGATAAACACAGAAAATTAAAA TTTCGGTGGCTGAGAAGTCTAACATCAAAGCACTGCCAAGTCAGAGTCTGGTAGGGC CACTTCTGGTCATAGATGGCACCTTCAGCTGTGCTCCTCACATGGCAGAAGGGGAGA GGCCTCTGGGTCTCTTATGAGGGCACCAATCCATCCATGAGAATTCAACTCTCC
136964	ACACCCCTGTATGTGAGACCTAGTGGATGGCCCCCTCTAGAGCAAGGGGATGAAAAGTG TAGTGTAACTGTGTATCCAGGAGAGAAAACCACACCGTCATACTTTAAAGGCATCAT CTTTAAGCAAGCAGTGTATTGGTAAAAGTCCAATGCTAGACTGATCCTTATTCTTGT GGGTGACCCATTTAATCTATCTGGAAGCTATTAGGATCATCCCTGTGTTAGTCCACTGAG GCTACTATAACAAAATCGCATGGCTGGTAGCTGATAAACACAGAAAATTAAAATTTC [A, G] GTGGCTGAGAAGTCTAACATCAAAGCACTGCCAAGTCAGAGTCTGGTAGGGCCACTT TCTGGTTCATAGATGGCACCTTCAGCTGTGCTCCTCACATGGCAGAAGGGCAGAGGC CTCTGGGTCTCTTATGAGGGCACCAATCCATCCATGAGAATTCCACTCTCTGACC TAATCACCTCCAAAGGCCACATCTAACATACCACCTGGGGTTAAGATTCAAC ATATGAGTTGAGGGGGACACAGCATTGGGACCAGAGCAATCCCTCATGAACCTTTAAG
137136	TTCCTGTGGGTGACCCATTTAATCTATCTGGAAGCTATTAGGATCATCCCTGTGTTAGT CCACTGAGGCTACTATAACAAAATCGCATGGCTGGTAGCTGATAAACACAGAAAATT AAAATTTCGGTGGCTGAGAAGTCTAACATCAAAGCACTGCCAAGTCAGAGTCTGGTAG GGCCCACCTCTGGTCATAGATGGCACCTTCAGCTGTGCTCCTCACATGGCAGAAGGGG CAGAGGCCCTCTGGGTCTCTTATGAGGGCACCAATCCATCCATGAGAATTCCACT [C, T] TCCTGACCTAACACCTCCAAAGGCCACATCTAACATACCACCTGGGGTTAAG ATTCAACATATGAGTTGAGGGGGACACAGCATTGGGACCAGAGCAATCCCTCATGAAC CTTTAAGGTTCATGAGAGTAGAAGCTGATTCACTACTTATCTCCAGTTCTATGCCTG GCACAAAACAGGGCGAGGATCAGAGTGAGGAATTGAGGTGCGTGCCTCCAACACAAAGA CGCGGTAGTTAAAACAAATAATATTAAATGCAATATTTCACAAATTAAATGCAA
139365	CAAAGCTTCCATCCCTCTGCCAGGTCCAACACTATCTGCATCTCCCTCAGTCATGCT GGCTGCAGGGAACAGCACCAAAATTCAACCCACTTGCTAAAGTGGAAAACGGTCT GTCATTCCATCCCTTCCAAAGGCCACATCTCAATGCAAGCTCTGGTTATGAGCTTGG TGTCTCTCTCTGAGCAGATCTGCCAACAGAGTCTCTGGCTCATTGCATCCCTGG CCAATGCAGCCACGGTCTCAGAATTGGCGCATTGGGTCTCCAGCACACAGAGGAGA [C, A] TCTATCACCTTGATGCCATTGGCTCTCACAATCCGGCTTGAGGGGTCTTCTAAC CTTACCTCCCTGCTTTCTCTGGCTCTGCCCTTGCCAAGTGAGACCAGCAGTCCC CTCTCAGACACATCTCTGCTTCACATGTCATGCAATTGTTAGCTGAGATGCACTG

		ACTTCTGTGCGTCAGTGC AAAAGTAATTGGTTTGCAATTAGAGTAATTACCT GCCTTCAAATACGCCCTCCTTAGGGCTGGATTAAATGCTATTCTCAAGAAAGTT
141321		ATTCTGCAGCAGCCCTGCTGAGGTCACTGTCTTCCCAGCTGCCCTCCTTCAGTC GCAGTAGGGGCCAAGACACAAGTAACACAATCAGATCATAATTGCCACTTCAA TGGCTTGTGGCTCTGTAAGCTAGGAGACAACGTATCAGACAACCCTGGCATCAGGG AGGGGAGAGCCAGCCTCCTGCAGGCCAGCCGTGGAACTGGCTTCACACCTT CACTCTGTATGCCACTGAGCCTGTCAGGGAAATGAGTGGTACACATACACACT [C, -] ACACACACACACACACACACACACTCACATATACTCATTCTCACACATGCTCATATAAC ACCCATATACACTCACACACTCATATACTCACATACACGCTACTCCCACACTCATACAC TCACCTCACACACATACACATACACACACACACACACATACATATTGAGACATATAAT ACACACACACTTACACTCACACATACACATGACACACATACACATACATATACTCATACAA TCATACTCTCACATACACTCACACATGTCACACACTCATACACTGTCACATATACTTC
141736		ATACACTCACTTCACACACATACACATATAACACACACACACACACACATACATATTGAGAC ATATATACACACACACTTACACTCACACATACACATGTCACACACATACATATACTC ATACAATCATACTCTCACATACACTCACACATGCTCACACACTCATACACTGTCACATATACT ACATTCAACTCATACACATACACACACATACAGTCACTCGTACTCACACACTCATATT TCACACACACTTCACACTACACACACACACACTCACACTGACACACACACACTCACAC [A, -, T] CTGACCCTAGACTGCTCCTATTCTCAGGCCAGGGCTTCCCTGTGAAGCCTTCCCC AGCGTGTGGCTTAGGACTTATCTCAATTTCACACTGTCTGCTATCCATTGTCTCT GTTGCCCTGCCAGATTGTGAGCAGCTGAGAGAGGCAGGGCTTGCCTGTTCACTTG TACTCCTGTATGTGGCAAAGGGTCTATTATTACTCAGAGGAATTCAATAATGTTGA CCGGATACATGGTAGATGGGATGGATGAACATTGAATGAATGAGTAACCTGAGGAT
142173		TGTGAGCAGCCTGAGAGAGGCAGGGCTTGCCTGTTACTTTGACTCTGTATGTGG CAAAGGGCTATTATTAATCTCAGAGGAATTCAATAAAATGTTGACCGGATACATGGTAGA TGGGTGGATGGATGAACTTGAATGAATGAGTAACCTGAGGATTGGTAATGTTCTTT TTTTTTTTTGAGACAGAGTCTCGCTTTCGCCAGGCCGACTGCACTGGCGCTATC TCGGCTCACTGCAAGCTCCGCTCTGGGTCACGCCATTCTCGCTGCCAGCCTCCGA [A, G] TAGCTGGACTACAGGCGCTGCCACCGCACCGCTAATTTTGATTTTAGAG ACGGGTTTACCGTGTAGCCAGAATGGTCTCGATCTCTGACCCCATGATCTGCCGC CTCGCCTCCAAAGTGCTGGATTACAGGCTTGAGCCACCGCACCTGGCGTAAGTGT TCTTGCCAAGGAATTCTTACACTCAACTCCACTCAAATGAGAACCTGGGAAGAG AGAGATTGATGGATTGGCTCATCAGGACTCTGCCCCACCTGCCCTCTTCCAT
142337		TGGTAAATGTTTTTTTTTGAGACAGAGTCTCGCTTTCGCCAGGCCGA CTGAGTGGCTATCTCGCTCACTGCAAGCTCCGCTCTGGGTCACGCCATTCTCC TGCCTCAGCCTCCGAATAGCTGGACTACAGGCGCTGCCACCGCACCGCTAATT TTGTATTTTAGAGACGGGTTTACCGTGTAGCCAGAATGGTCTCGATCTCTGA CCCCATGATCTGCCGCCCTGGCTCCAAAGTGCTGGATTACAGGCTTGAGCCACCG [G, T, A] CCTGGCCGTAAGTGTCTGTCCCAAGGAATTCTTACCTCAACTCCACTCAAATGA GAACCTGGGAAGAGAGAGATTGATGGCTCATCAGGACTCTGCCCCACCTG CCCCCTCTTCCATATGGGAGCAGGATGTGGTGGAAACTGCTCAAGAAGTGGTA AACACTTGATGGCAGAGGCCATGTCCTTCCACTCACACCAAGTGAGGGCA CAAATTATTCTCCCCCTGCCCACTGCAGGAAATGTACAATCTAACCTAATCT
142788		GTGGTGAGAAACTTGCTCAAGAAGTGGTAAACACTTGTATGGCAGAGGCCATGCCC TTCTTCCACTACAACCAAGTGAGGGCACAATTATTCTTCCCCCTGCCCACTGCA GGAAAAATGTACAAATCTAACTTAAATCTCTCCATAAGCACTGGAAGCTTGGCATAG GGATTAGAGGTCTGGTCTACGATAAGCTAGCCACGATGTGAGCCTCAACCATCGAT AAAATCACTTGAAATCCAGTATCCCTGTTAGAGTGGTTCACTGCCCCATGTCATGC [C, T] GCTTGTGAGGGCTCTCATTAAGACTTCTTCCACCTTAGACAGCACTGACCC GTCAGGCTCACACAGTCGCTGTCACCCAGGCCACCTGCAGCTGCTGCCACTCACCA AAGTCTGAGAGGAACGTGCTCCATTACAGGACAGTGAGCACTGCCAACCCACTGTG TCCCTCATGTGTGGGAGTGGCTCCCCACCCCTGCCAGAGCAAGAACGATTCTG GGTCACCCACCCAGGACTAGAACCCAGAGCTAGTCTGCCACTCCTGAACAACCACCGC

	TGGGTTCAGCGTTCTTGCTATTATTTCTTGGAAATAAAAATACCTCAAGATAA TTGCCCAAGCATTTCATAGGATGAGTTGTCTTTCTAAAGCAGGAAGGCTAGGAAGT ACCAAGAAGAGGAGGCCTGGTAGATGAAGGAATAAGAGGAGGAATCTAACATGGGA GATTACTGAATGTCCATGTGCACCTCCCTCTCCACTCTTCTCAACTCAACCACAAA CCTCCCAAGGCAGGGCACGTCTCCCTCATCTCTACCCCTCCCTTAGTATGGAGC
153817	TCCTTAGTATGGAGCCTGACACTCATGCCITCATTTAACCAACCCATGTTGAGTGAGGG CTACTCTGCACCAAGTACTGGGCTGGGAGTGGGGCACCAGTCACAAGACAAGGCCCTG CCCTCAAGGCAGATCTCAGTTGTGAAGGAGATTGTCAACAGAGAAAATCTAAATGAAA TGCATGAGGAGACCCCTGTGATAGGAGAGAATGCTTAGGAGGCCACACATCTGGGT CTCAGAATTGCAGGCCCTGGCTGGTAGGAGGACCCCCACAGAAAAGAAAAAG [A, T] GCCTCAAGCCCCAGAGGGTGAETGGCAAACCTTGTGTGGTATTCAGAACAGACAAATT TAGGTCAACAGAAATGTGGGTGGCTTATCACAGAGGGGGCAGCCATCGTACTCGC CTCGGCTGCCATGAATTCCCTCAATGTTCCAGCTAACGTTGATTCCATGGTGAG AGAAATGCCGCTTGAGGGCAGAGATATTTCCTTCTGACAAATAGTTCTATGTCC AGGCAGCCATCTGCCACCTCTGTGAGCTATGAGATCCAGCAGCTGCTGAAGGTTCA
156544	AATACCTTGTGCCCTTAAAAAATTCAAGTTGGTTGGTACTTGAGAGATATGACC AAAGGATGATACAACAAGAATAGTCTATATCTTCTAGACATGTTCTCCCAGGTAAATC AGAAAGGCAAGAGTGACACTGCCATGCAGCTAGAGTTTATATTCCATGGGAGTG AGGCCAGGCAGCCAGCTCTCCTCTCCTGGCAAGGCTCTCTGCCAAGTTGGGAGGGCT CCATCCTCTGCCCCAACAGCCTGCTGTGGAACCTCACGGCAGCCCCAGATACTCTG [T, C] AGTCTATCTCCCCAGCCAGGTGTGGGCTCTGGGGAAAGAGGGGACCATACTTTTGAT CTGCATCTACAGTGCCTGACAGGGAAAGCATTAGGAGGGCAGGAGACAGCAGGACAAATGG CTCCTCTCTCTTGGCTGTGGCACCTGGTGCTATAGCTCATGCGCAATCTCGATGC TCTTCCCTTGGTGAGAGGTACAGCAAATCGTGTGCCAGACAAACAGAAATATTCAAT TCTCCGCCAACATTGAACAATTCTGTTCTCAAATGCCCTCAGGAGCCTTGGAGAA
156579	GGTTTGGTACTTGAGAGATATGAGCAAAGGATGATACAACAAGAATAGTCTATATCTTCT TAGACATGCTTCTCCCAGGTAAATCAGAAAGGCAAGAGTGACACTCTGCCATGCAGCTAG AGTTTTATATTCCAATGGAGTGAGGCCAGGCAGCCAGCTCTCCTCTCCTGGCAAG GCTCTCTGCCAAGTTGGAGGGCTCATCCTCTGTGCCCTAACAGCCTGCTGTGGAA CTCCACGGCAGCCCCAGATACTCTGTAGGTCTATCTCCCCAGGCCAGGTGTGGCTCCTGG [A, G] GGAAGAGGGACCATCTTTGTATCTGCATCTACAGTGCCTGACAGGGAAAGCATTAGGA GGCAGGCAGACAGCAGGACAAATGGCTCTCTCTTGGCTGTGGCACCTGGTGCC TATAGCTATGCCAATCTCGATGCTCTCCCTGGTGAGAGGTACAGCAAATCCGT TGCAGACAAACAGAAATATTCAATTCTCCGCCAACATTGAACAATTCTGTTCTTCT CAAATGCCCTCAGGAGCCTTGGAGAAGTCCCTGCCCTCCCCCAGGCCCTAGTTCTCAT
157391	CTCAGCTCACTGCAACCTCCCCCTGGGTTCAAGCGATTCTCTGCCCTAGCCTGCCA AGTAGCTGGCATTACAGGTGCCTGCCACCATGCCAGCTAATTCTTTTTAGTAGA GACAGAGTTTGCCATGTTGGCAGGGCTGATCTGAACCTCTGACCTCAGGTAAATCCGCA CGCCCTGCCCTCCAAAGTGTGGATTACAGGCATGAGGCCACCGTGCCTGCCAACATT CTCAAACCTTCTTCGTAACAGCAGGCCCTCAGAAGGCTCTGATTGGAAGGGAAAC [A, C] GTGACCTCAGCCAATGCAGGTGGAACAAATCAATGTGTGCAGACCCCTGCCCTAAAT CAATTCAACCTGCCCTCTAGGGACTTGCATACTGGAAAGAGCTCCTCTCCGAGT TACTTAGGCCAGATCTAACCTCCATCTTGGTTCTCTCCCTCCATTCTCTTCT CTCCAGTCCCCCTCTTCCCTCCATCATGCCCTCTCCCTCTGTCCTGTCTC CCTCCACTCACCCATTCCCCCTCAGGGTGAAGAGTCTGGCTACCTGGGAACACCTGGG
158718	TGGGCTTTTCTTGGCATGGAGATGGAGGAAAGACTAGTATTGTGTTGGTAG GAACCTAAGTAAAGCTCTAGAAAAAGAATTCTTCAAAGCCAGCTGGTAAGTGGCTAT TCCAAAGCCACTTGTACAGGGCTGCCAACACAAAAGCCCTTCACATTCTGAAGCAA CTTGACCTAAACCCAGAAAGAGAAGCCTGGATTGTAACCTCTGCTAGACAACTGACCACA GTGTGTCCCCAGTAAAGGCCAGTGGGACCCAAAGAGCAGAGGTCTGGGATCAATTCT [A, G] TAGATTCTTTGCTCAGGATGAAATCAATTGCCCTCCATTCTATTCTTTAAAAAAT TTCCCTGCATTGCCAATCTAAAGACCCGCAGGAAAATGAATTGCACAGTGGTGTG GAAGGGAGAGGAAAGAGGCCACCAACAGGGAACACCCGCCATCTCAGACAGAAAGTCTG

FIGURE 3, page 151 of 188

		GGAAC TGCT GTGAT GGAC CTTGAA AACAC CGGGAG GGAC GCAG ACCTCACCCCTCACCTCGG ACCCCGCCTGGGGTGGTTGCTGAGGAAGGCTCTCCCTGTAATCCGCCCTTCAGTCACT
160186		TGAAGCCGCACTGTCTGACCTTGGGAGCTGTCAGCGACCTCTCAACCTCAGTCTTCTGTC TCGAGAGTGCGGACGTTAGTGTGTTCCAATGGTGTATGGTGAGGACAGTGACAGTGAG CTGAGCTCTGACAGAGGCAAGTGCCTACTGCTGCCCTACTTGTGTTACCGCCCTT AACTCTGTGTCCTACTGTGAGCCCCGGGAGCAGGGAACACCTGACATCATGTGCT CTGAGGGAACGCAATTGAAAAGCCAAGGGTGGCACCTGGAAGGGATGGGTTACAAAGAGCC [A, G] TCCACACACCTGCACTCTGGGCTGTGCCACTGGCAGCATA CGGGGGCCCCCTGTTCTC TCCTCAGACGGTGTGGGTGCTGGGCTGGTATCTCTGAGGCCACTGAGGACGGTCCCT GGGCGTGTGGAAAATAGAGGTGCGAGGGAGAAGTCTAGAACGCCATGACTGTGACTACAGAG TGAACAGAAACCATT CGGCAGGGCAGCCCTGGGGAGGGAGCAGCATA TGGTTTCAGCAG GGGCAAATTAAACGGAATGTTATCTCCCTACTTATGATCACTGTTACTGATAGTGC
161108		GGCCAAGGCAGACAGATCA TTGAGGT CAGGAGTTCAAGACCA GCGCTGGCCAA CATGGCG AAACCTGTCTACTAAAAAATACAAAATTAGTTGAATGTGGTGGCGGGCACCTGTAGT CCCAGCTACTTGGGAGGCTGAGG CAGGAGAATCACTTGAACCCAGGAGACGGAGGTTGCA GTGAGCTGAGATTGCGCCACTGCATTCCAGCCTGGGTGACAGAGTGAGACTCAGTCTCAA AAAAAAAGAGAAGAAAATTATAATCCCACATACATGGTTGCTTATCATGTGTTTC [G, T] GTGAACTTTATGGAATT CGAGCTGCAGGAACCAGACCTACCATTTATGAAGCGGGTCA TCTTTCTGATCGCCAGCCAGGTGCTTCTCAAAGACAGGATTGGAAATTCTGGGAG ATGCATCAGGTACTATTCTGATTCA TAGATAAAAGTTGGCCTTAAGAAAAGATAGAAT AGTAGAGTGGTTAAAGGGTGGACTTGGGATCAGGTGACCTGGCTGGACACTTGGCCA TATAGAGGCTTGGACAGGTGGTGCCACACTCTGCGCTTGACTTCCCGGCTGTCACAC
162060		GGATGAGTGGAGGCCACAGAGCTGGGGAGGGACCGGGGAGAGGCCTGGAACCTGGATCCACC ATCAGAAGAGGGAGCAGCGGTGTGCA GACATGTCCTCTAGGGCCTGTGCTGAAACAGG AACCTTTGCTGTAGACTTTGGGAGGGGGCTGGGCTGTGGGATACGGCTGCCTGAAAGAG GACCGGCTCCTGATTCCCACCTGCGGAGGGCCCCGGAGGGAGGAGCCCCAGTGTGTTCC AGCAGGCTCCTGATAGTTGGTAGGAACCACTCGAAAGAGAACACTTGGAGGAGTGG [C, G] GGGAGTGCCAGTGTCA GCAAGTTGGGAGCAGAAGAGAGCCCCACAGTGTGGAACAGGTAG CCAGCAGAACCCACTAGTGACGAGAGCGTGAGGGTTGTTGTTAAGACAGAGTCTC GCTGTTGCAGCACAGTGCATGGTCGATCTCGCTCACTGCAGCCTCCACCTCCTGG ATT CAGGC GATTCTCTGCCTCAGCCTCCAAAGTAGCTGGGATTACAGGTGCCAGC ACGCCCGGCTAATT TTGTGTTTTAGTAGAGACAGGGTTTCGCCATGTTGCCAGGCTG
165993		TTGCTTTGAAGAACGGTATGGTGTGTACTTGGATA CGATGAAAATGAAACAGATAGATC AGGTATAAAAGTCTAGAGATGCTAATGGTGTGGGTCA GTTGTATAATGCAGGCTTGCCA CTGAGTGGTTTTGTTGCTGACTC CAAAGCCTGATTGAGCCTCTATGACTCAGGAGA AGGGAGGACATGAAATTAGGGTTCTGTGACCCAGGGGTCA ACCACAGATGCCCTCCA TATT TTTAATTCTCACTTCA ACCAGGGCTCAAGATTATG TACCACTGCGTGAGCATT [A, T] AAAAACTAAATAAAAAGAATGACACCAGTCTATATTATATTGGTTTGCTGAACATGCTTT TATTGACTCTGGTCAAAACGGATGAGGATT TTTTCTTAACCTGATGAATAGT AGATAAAAAGCATCAACATCACATCTCAAGAAAAGCTGCAAGAAGAGAAGGCTCAATAAAA ATGGATCTGACTCCATGCAAGCATAGCTCTATTAGCATCTTCAATTCTAATGACTTAAT GGCCAGATACCACA ACTTACAATTAGCAACAAAGAGAAGTTATTGGGAGCTGAAAGGGA
166679		GGCACGGACATG TAGGATT TAACCACTGAGTAGTTATCCTAGCCAATTAGCCATTGGA AGGTGATTGCCACCTCAGATAATCAGTTGAGACCTTGCA TGGAGACTCATCCTCACTCC TCCTGGAGGATGCTGTGTCGCCCTGCCCTGACCTGCATGCTGAGAATT TATTGACAGC TCAAATCCACAGAATGGGATTTCGCCATGTGACAGGGCTGTCCCTACCAGCCCAGCTC TCACCATTGTGGGTACAATGCCAGCAACTCACTGGGTGATTGGCAGCATGGCCACCCATA [C, T] CCATT CAGAGGCATGAAAAGAGCTCCACCA GTGAACATCCACTGTCCCAGGCCCTGCCA GCCTGGACTAAATCCATGCAAGAGAGAAGCTGGGCTGCCAGGTAGCCAGTCACTTACT GTGTGAAGCTACCATGTGGGAGCAGTGTCA GCGACCCCTGCTGC ACTGGAGCAGTGCCTG TGGGAGGGAGTGGCTCTGGTGGCAACATTGCTGGAGTGGGAAATCTGAGTTCTAGT CCTGACCTTGCCACCAGCCATCTAGGGCCTCATGGAAAGTGACTCAATTCCCTGGACT

167136	<p>CCCTGCTGCACTGGAGCATGCCTGTGGAGGGAGTGGGCTCTGGTGGCACATTGCTGGA GTGGGGAAATCTGAGTTCTAGTCAGCTGACCTGCCACCAGCCATCTAGGGCCTCATG GAAGTGACTCAATTCCCTGGACTTTCCGGGTTCTAGTAGCCCTGTCTATCACTTGCTT GCCTCAGGCCCTCAAGCAGGTGGCCCTCCCTGTCTGTCTCCGTGCTGGTGGATTTC CACTTGCACTCCCTGTCACTGTGATGGGTGAGGGCTGGAGGCACAGTTGCCTATCTGC [T, A] CTAACACGTTCTCGGCCACTGTAGCAGATACTGGCAGTGCTCTATTGTTCTACACAC TGAAGGCATCTTGTCACTCTGTCTCCCTCGGGGCTACAGGATGCAGGGGCA GTCTGGTCAGTCACAGGGCAAGCAGGTGCTGGAGGTTCTAGTGTCAGGAGTAGCC TTCAACCAACAATGAGCAAGAGTTGCTGGATAAGTACAGCTGCACTGCCAGGTGCA GGAAGGCATCTGCCCATCTCCAGGTGCCCTCTGGCAGGCTTAATCCCAGCTGCCA</p>
173782	<p>TACAATTAGAGACATGGTTGATATATTGATGACATAAAATCTTAAGCTTCTGTATATC ATAAGGCAAATGAAAAACTGGGAAAATAGTTGGAGTTATGAATGACTTTACTATAGAA AGAGCTCTTAGTAATCAATAAAAAGATGACCATCACATAGAAAAGTTGTGAAGAAC TGAACAGAGGGCACACACACACAGACATTCACATCCACATCCACAAATACACATCATT TTAAATATTAGATTCTGAACCTCCTAATAATCAAATAAGGCAAATTAAACAGTTAAC [T, -, A] ATATATTGGCCATGAAATCAGCAATTAAATGATAAAATCAGTTTAGCAAGGAT AGAGTAAAGGGACTCTCAAATGTAGCCAATGAAAATATAAAATGGCACCAACTCTGT GCCAGTAATTGGCAGTACTTATTATTAAAGTCTCTTTAAACATGCTTTGATTCAAGT AATTCCACTTCAGGAATTATCACAAGGAAAAAAATCAGAGATTGCTAAAGATTATG TTCAGGGATGTTACTGTAGCTTGTCAAAGCAGAAGTTGGAAAGCAGCCCCAAAT</p>
176290	<p>GCCCAATAATAATTGTTGAATAAGTTAAAGGAGAAGTAATATTCCCCATTACTGAG CACTCACTGTGTGCCTCACCTGGCTCAAGTCTCATAGCAGCTGAACCTTAATTCTCAC ACCACCCCCACAAGGTAGGTTGGCAGAAGGGAGCCTGAGAAATTAGGTACTACAAATCT CTCGTGCACTGCATGTCTATTGAAAGTTATTCTTGCAGGTTATTGCTCTGATGTT ATGGCATTGGTAGATATTGTTGGAGAGGCAAGAAATGTCATTATGAAGAGAATTCTCTC [T, C] ATTAGCTAATGTTAGAGAGGCATTGTGACATACAAAAAGACCATTGGCTGGACTTGT CACATCTGATTCCAAATTACCTCCTCACTAACCTGTGTAACCTCAACAAATCACAA CCTCTCTGAGCCTGTTCTAAATCTATTAAAGATAATGAAACCAGTCTTGCC CTGCTTGAATGGAGGTATAAGTGAAGTGAATGACAGAACAGATGTGATTGACAACTTATA CTTACACCCCTGTCTTACTGAATTGTTACTCTCAACTGAGGTAGGTCCATCAGT</p>
181889	<p>TGAGGAATGTTGGGTATTCAAGGTTGATAAACAAAATTCTCTGGCGTTGGCA TTGAGAGACGGAACACTGAGAACATAAGACATGCTGAGATTAGGTTGTTAGAACCT GAAATCTCAGCTTACTCCTCCCAGAACCTGTGCTGACTTCGGAAAAGGAAACATTAA GCCTGGTTGGGTTCTGGATTGCAAGTAGCAGTGGTTGCTAAACTAAAGAAGGGAACT GGAGCTCTATCAGTCATTAAAGCAGAACACTGGCTGACTGTCCTGGAAATAAC [A, G] GGACTGAGGCTTGTGCCTCCAGCCAGAGATTGCTCTCCATAGCCCCATTGCCACCGCT TCTACTACTTGTGCTCCACTCCCCAGCCACCCAGTGTGATCCACCCCTGCCAGAATGCACAA TGCCGGCATTGATCATTCCCCAACCCACGGTACAGTTGCTTCTCTGCTGCTAATTGG CCATGAGAGCTCGTTATGAGGGATCAGAATTGTTAGTCTCTCCTAATGATCTGTCT GGAGACCAACTTCATGACATTCTCAATTAGGGAGTGCAGGGCAGGGCAGCGCTAT</p>
182606	<p>ACCTCCCCAGACTCCGGCTATCCTTGTGTCCTCCCTCATGGAAAGACTT TCCCTTGGTCAGGCTTGAAGGACAACACTCTGTCTCTGCTAGCACACTCTGTGCTTTAA AAATTCTTAACGGAAAGATGACTTCTTTGAGATCAAAGGCACACTCTCAGGGATGTT GGGGCAATGAGGAAGGTAAAGCTACAGAGGAAGTCAAGACTGGTCCACTCCAGCTCCC CATATGTGAAAGAGAGAACCAAGGCCAAGAGAGAAGGGTCTTGCTCAGGGGGTCC [C, T] CAGCACTTAGACAGGAAGACTAGAGCCCCCAGTCATTCTGCTTCCCTCTCCTCACC CTAACCTCAAATGCAGGCTTTATCCTATGTCCTGTTCTCCCTGGACCCAGCCAGC TTCTGGATTCTCCGCCACTGGCTTATCGTGCAGTGGACAACACACGGCTACACTT GACAGCCAGAAACTGGATCATAAGCTTGAGGGCAGGATCCATATCTCCCTATTCTGTG CTGTGTCAGGACCTAGCATCTCACCCACAGTAGGAACACAGAATTATTCAATGAGTGA</p>
184663	<p>AGAACACTCAGCAAACGCTTGGATGTGCACTGACTTTGAACGGCTAGAAAGTTGAGGG CACCACTGCCTCGGAGCTGCTGCATGACTCGGGCTGAGGTGTCCTGAAATCTGGG GACAGGCAGTCTCTGTGGCGTCAGACAGAACAGTGGCTCCCCACAGGGAGCCCAGTC</p>

	CGATTCTGCAGAGCCGGCTGGCCCTGCTGGTCTGGGTGCCCTTGCCCTCGTCAC ACAGCGACACCTGGTGGTAAGCTGGTAACCGCCGGACCCAGCCTGTCAGCTC [C, T] ATGCTGGGCTCCAGCTCACGTGCGCTGTGCACCGAGGGACTTGTCTGGCACGTGCAC ACCCAGTCTTGTGCACCACCGAGTACTCCGTTGTGACAAAGTTAACTCAGTTATGTATG TCTTCTCCTGCTGTGCAGAGAGCAGTCCCGTGCCTCAGTCAGTCAGTCATGGTCTG TACTCATTCAGAGGGGAAGAAAATGAGCTTTCTAAGTACGTCTATGTCACCACCC CGATGCCATCCTACTGCCATCAACCACCACATCCCTGCCGTACCACTACCATTGCC
185392	CTCCTCACATAGCAGCAGAATTGGGAGCCCTGCCGCTGAGGTTCAGGAGGGAGGCTG AGGGCCTTTCACAGAGACTGTGAAAGGCTTGGAGGGCAGGAAGGACCCA AGAGAGCAAGGGAGGGAGGATGGGCCTCTCCAGCTCTAGCTGGCAGACAGGACAGC ACGAGGTACCGCCCTGGATGCAATTAGGACTGAAGTTCTGCTGATGTCACAGAATGCTGG AAATGTCCAAGACCCAGTTCAGGACTGCCCTCATCCAGGTGAGCAGTGCAGAGCAGT [C, T] AAAAGGGGCCAGGAAACAAGCCGCCATTCTCGTCAGTCAAAGAACAAAGCCAGCGG GCCAGCTCAACCTGTTGTGACAGAAATACCAGGGATCTTTCTTTCTTCCATTTC CCCCAGGCAGCAACTGTACAAATGAAACTCTAAAAGTAGAGCTGGCCCTCAGAGCCTG CACAGCACTGACCTGTTCTGTTGTCATTAGCCTCATTCTCTCAGAACAGAACAGAAAGCCTC ATTCACTCAGAACAACTCACTCAGCCCAGAGGGCTGGGTGTTCTAAGACATTACA
186612	AAAGAACATAGATCATATCGTACCACTCTCTGCTAAAATCCACCAAGTGGCTTACT ACACTTAGGACACAGCCAGAGCTCCCCACCCAGCCCTGCTGCTCTGCCCCAACTGCC CTAACCCCCATCTTGCCACGTCCTCTCTCCTCATCCAAATCATCCTCTTGCTC TTCCCTGAAAACATCAAATTCACTCCCACCCAGGGACTTGGCACTCGGTCTGGACTCTG ATCCTCTCAGCTGTTCCCTCACTCCATGCTGAAAGGCTGCCCTCCAAGAACCC [T, C] CTGACCACCTTATCTAAATACTCCCTGCTCCCTCACTCCTCATCTCTTTAGTTTC TTTTCTTCATGGTACTTATCACTTCCGCTGTCCTCCACTCAAATATAAGCTCC AAAGGCAGGGATTTTGATGTTGTCAGTCTGCTATATCTCTAGCACTTAGAATATGGC CTGGCACACACTCAATAGGTATCTGAATGAATGAATGAATGAGTGAGCATGATGCC CACCCAAAGCAGCTGCTGCCAATCTTGTGTCCTATGGCTGTCATTCAAGGTGGCGGG
187014	ACTCAAATATAAGCTCCATAAGGCAGGGATTTGTATGTTGTCAGTGTATATCT CTAGCACTTAAAGATATGGCTGGCACACACTCAATAGGTATCTGAATGAATGAATGAATG AATGAGTGAGCATGATGCCACCCAAAGCAGCTGCTGCCAATCTTGCTGTCCTATGGGC TGTCAATTCAAGGTGGGGATGGCTCACTTGTATCCTCTGAGAGCAGCACTAGAGA TCATTCTGAAGACAGCACATAAGCGTTGAAATGGCTCCCCCTGGACCAGCTTGC [C, T] ACTGTTACCCACCGTTAGGCAATGCCACCCCGTGGATGCAACACCACAAGGGCAAGCG AAGAGCTCAGCGAATGGGGAAACTCTTATCCCATATGCTCAGCTGCTGGGCTGGGATC ATGCAAGGGAAAGTATACAGACAGCAGCAGGGAGTCCCCGACAGTGGCTGTAGCCAG AACTGGCCACATAATTGTTAGGACCCACTGCGAGAACGAAATGTAGAGCCTCAGCTAGGG GTTTCTTGGCCCACTGCCAACCTCTACAGACAGAACATCCAACAGCTTGCAC
187090	GGCCTGGCACACACTCAATAGGTATCTGAATGAATGAATGAATGAGTGAGCATGAT GCCACCCAAAGCAGCTGCTGCCAATCTTGTCCTATGGCTGTCATTCAAGGTGGC GGGATGGCTCACTTGTATCCTCTGAGAGCAGCACTTAGAGATCATTTCTGAAGACAG CACATAAGCGTTGAAATGGCTCCCCCTGGACCAGCTGCAAGTGTGTTACCCACCGT TAGGGCAATGGCCACCCCGTGGATGCAACACCACAAGGGCAAGCGAAGAGCTCAGCGAAT [G, -] GGGGAAACTCTTATCCCATATGCTCAGCTGCTGGGCTGGATCATGCAAGGGAAAGTAT ACAGACAGCAGCGAGGGAGTCCCCGACAGTGGCTGTAGCCAGAACTGGCCACATAATT TGTAGGACCCACTGCGAGAACGAAATGTAGAGCCTCAGCTAGGGTTCTTGGCCCA CTGCCCAACCCCTACAGACAGAACATCCAACAGCTTGCACCCCTGTACCAAGGATGT GTTAAAAACCTGACTTGAAGGTGAGCAAGAGGCCACTGTATGCAACCATGGTCTATCAG
187290	GCTCCCCCTCTGGACCAGCTGCCAGTGTACCCACCGTTAGGGCAATGGCCACCCGT GGAATGCAACACCAAGGGCAAGCGAAGAGCTCAGCGAATGGGGAAACTCTTATCC ATGCTCAGCTGCTGGCCTGGATCATGCAAGGGAAAGTATACAGACAGCAGGGCAGGG GTCCCCCGACAGTGGCTGTAGCCAGAACTGGCCACATAATTGTTAGGACCCACTGCAGAA GGCAAAATGTAGAGCCTCAGCTAGGGTTCTGGCCCACTGCCAACCCCTACAGA [C, G]

FIGURE 3, page 154 of 188

T G G C T C G C A T T T G G G A

	AGACAACATCCAACAGCTTGCAACCCCTGTACCAGGATGTGTTAAAACCTGACTTGAAG GTGAGCAAGAGGCCACTGTATGCACCATGGTGCTATCAGCCTGGCAGTGACAGCCATA CCCTGCCCCGCCCTGAGATGCCTGGTGTGGGCCAACATTGCTCACCCATACCC ACACCCAGGCCCTGCCAGGGTGGAGGGCAATGGCAGAATGCTCCCTCCCTCAATGTGA CCAGGTCACTGTTAAGGTTGAAGGCAGCAGCAGGGGTGAGTGGGGAGACCAACCCAGGG	
187862	CAGGGGTGAGTGGGGAGACCACCCAGGGATAGGGGTGAGAAGCAGGCAGCAGAGAGCC ATCTGGGATGCTGAGGAGGGTGAAGAGTCAGGGCACACATGAGCCGAGGCTGCAAGC CCTGGCACATTCTCACTGTCCGTACCCTTCTCGTATAGAACACAAATTCAAAGAGGA TCAGCAAGCATTCAAGACAAGAACCCCAGCAGTAAGCCCAAGCTCAAGGCCCTCTGA CTGTGGGACCTGTATTACTCTACAGCCATGCACCCGTGGGCCAGCCCTGGCTGCAGCCA [T, C] GAACAGAGGGCCCACCAGCATGGGTGTTGACCCCTCCTGTGTTAGAACATCTGCA GTTTGAGCAGCTCCAGACCAACACCAGGTCCTGTTGCTCTTGCTGCTGCTATGGT GCCACCATCAATTGAGGTCAAGGAATTGACAGTAGTCCCTGCTGAGAGGCCCTTCA TCTTCAGAGCCTAGAGTGGTCAGAGGCCCTGCCAGCCAGCCTGCACAGGTGTGAAGGCC TGGATTGCTTGAAGATTGGGAGGAATAAAAGATTCTTAAATTCCACTTGAGATTATTAATCACA GTTGAGGAGGTGAGAGTCAGGCCACACATGAGCCGAGGCTGCAAGGCCCTGGCACATTCTCC ACTGTCCCGTCAACCTTCTCGTATAGAACACAAATTCAAAGAGGATCAGCAAGCATTCA AGACAAGAACCCCAGCAGTAAGCCCAAGCTCAAGGCCCTCTGAGTGTGGGACCCCTGTA TTACTCTACAGCCATGCACCCGTGGCCAGCCCTGGCTGCAGCCATGAACAGAGGCCCA CCAGCATGGGTGTTGACCCCTCCTGTGTTAGAACATCTGCAAGTTGAGCAGCTCC [G, A] GACCACACCAGGTCCCTGTTGCTCTTGCTCTGCTGCTATGGTGGCACCATCATTGA GGTCAGGGATTGACAGTAGTCCCTGCTGAGAGGCCCTTCATCTCAGGCCTAGA GTGGGTCAAGAGGCCCTGCCAGCCAGCCTGCACAGGTGTGAAGCCCTGGATTGCTTAA GATTGGGAGGAATAAAAGATTCTTAAATTCCACTTGAGATTATTAATCACAAGTGT GGTTGAACAAAAGTAAACCTGAATATGAATTATTTAAATTGAGGTATAATTACA	
187937	ACCATCATTGAGGTCAAGGAATTGACAGTAGTCCCTGCTGAGAGGCCCTTCATCT TCAGAGCCTAGAGTGGTCAGAGCCCTGCCAGCCAGCCTGCACAGGTGTGAAGGCCCTGG ATTGCTTGTAAAGATTGGAGGAATAAAAGATTCTTAAATTCCACTTGAGATTATT AATCACAAGTGTGGTTGAACAAAAGTAAACCTGAATATGAATTATTTAAATTGAG GTATAATTACATACAATTAAATGCATAGATTGTCAATGATATTCAAGCACATGTATA [C, T] ACCATCACTCAATCAAGATATAAAACATTGCTATCAACCTAGAAAATGATCTTCTAGTC AACCCCTCCCATTCAACAGAGGCAAGCAGTGTCTGATTCTAGCATCGTAGATTAGTTA GCTATTGTAATTGTAAGTGGACCATACTAGTAAGGAAACTTTGTGGCTTCTTG ACTCAAACCTAGTATAACACTGAGTTTATCCATGTAGCTGGAAAATCCATTGCTCGTT CCTGTTATTGCTAAGTAGTATTGACTATCACAGTTGTTGTGATTCC 188478	GGTTTGAACAAAAGTAAACCTGAATATGAATTATTTAAATTGAGGTATAATTACA TACAATTAAATGCATAGATTGTCAATGATATTCAAGCACATGTATAACACATCACTCA ATCAAGATATAAAACATTGCTATCAACCTAGAAAATGATCTTCTAGTCACCCCTCCCAT TCACAGAGGCAAGCACTGTCTGATTCTAGCATCGTAGATTAGTTAGCTATTGTA ATTTTATGTAAGTGGACCATACTAGTAAGGAAACTTTGTGGCTTCTTGACTCAAACCTCA [G, A] TATAACACTGAGTTTATCCATGTAGCTGGAAAATCCATTGCTCGTTCTGTTATTGCT AAGTAGTATTGTTATTGATGACTATATCACAGTTGTTGTGATTCTGTTAATGTACA TTAGGTTGTTCCATTGGAAACTACTATGAATAAAACTTCCATAAAATTGTTGATG TGTCTTTGAGCATACTGTTCTGTTGAGTATACCTATGAGTGGCAAATA AGCACATAAAAAGATGTTCAAGATCATCAGTCATTAGGAAATACAGATTGAAATCACAGT
189156	TTGGCAAGGATCTGGGAGAACAGAACATTCTACATAATTGCTGACGGGAATGAAAATGGT ACAACCACTTGGAAAGATGGTTGACAGTTCTTAAAAAGTAAACCTTTACTTTACC TTATGATCCAGCCATTCTACTCTTACCTACTTACCCAAAAGAAATTAAAGCATATATCCA AAAAAAACTTGACATAGATGTTCATAGCAGCCTTATTCGAAATTGAAATATTAGAA TCAACCCAAATGTCCATTAAACAGTTGAATGAATAGACAAACTGTGGTATATCCATATAGT [A, G] GAATGCTACTCAGCAATAAAAGGAATGAACGGCTGGGTGTGGCTCACGCCTGTAG TCCAGCATTTGGGAGGCCAGGCAGCATGAGGTCAAGATATTGAGACCATCC TGGCCAATGTGGTAAACCTGTCTACTAAAAATACAAAATTAGCTGGCATGGTGG	

FIGURE 3, page 155 of 188

194884	<p>ACCAAAAGGAGAATGCCATGTAAGAACCAACAAATCTGTGAATAACAAATGATACCG AATATAAAATATGTATAATTAAATTTTAAAATAAAATGATTGAAAATCAAGA GATTATACAAATGGCCAATCATCTTATGAATGGCTAAAAGAACTTCTGAAAATTCAA ATTCAAAACTCAGTGGAGAGTGAAACAGTAGGTTAGAAATAGCTGAAGAGTTAATTAA GAGCTGGAAGACGGATTGAAAAATTATACAGAATGCAACATAGAAAAACCAAAGATGGG [A, G] AATGCGAAAGAGATAAGAGATACTTAAATAGAATGAAAATTGTAGCATATTCTAATT GAATACCTGGAAAAGAGGGAGAAAATAATGGAATAGAGATACCATTAAATGGAAGATAG GTAAGGATGTTCAAGAACTGATGAAAGATAGAAATCCTCACTTCAGGAAACCTGATGAA TTATAAGCAGAATAAATGCAAAGAAATATGTGTGTTGCATCACAGAGAAATTGCAGAAA ACCAGAGAAGATGTTAAAATTATCCAGACATCAAAATGGATTACCTATAAGGGATGAA</p>
195290	<p>TTTAATGGAAGATAGGTAAGGATGTTCAAGAACTGATGAAAGATAGAAATCCTCACTTTC AGGAAACCTGTGAAATTATAAGCAGAATAAATGCAAAGAAATATGTGTGTTGCATCACA GAGAAATTGCGAGAAAACAGAGAAGATGTTAAAATTATCCAGACATCAAAATGGATTAC CTATAAGGGAAATGAAAAGGTTACAGGTAAACATCTCAACAAAGCCAGAGGGCAGGGGAAC AAAAGGTTATCAAGTGAAAGAAAAAAATACAGAACATAAGAGTAATTACACAGCAT [A, -] AAAAACTCTTAAAATTAGGATAAAATAGACATTAGACAAACATAAAGAGAATTGAG GTATAAGAAGGAATTATGAGGAATAAAGACAGACTCACAATATACTAGTATTGTCTATAG TTACGTCAAGGAAAGGTTCTAAGGTGTTCAAGGTTCTCATGGGGAGGGTAAAGTGTG ATTATAGACTTTGGCTTAATTATACATTAAATTGAGATAAACAGTAGAAGAATAAA AGAGATATTAAATTTTATATGAGCAGAAGAAATCAGGTGAAGTATTGATTCAA</p>
195939	<p>ACAATCTAATATAAACTAATAAAATAACATGTTATGTGGGGTACTATAAGGACAATGA ATGAATCACCACATATGCAAGACATGGGTGTAACTAAATATGTGGAGAGCAAAG AAAGTCTCTGTGAGTACATAGAGTGTGATTCAATTATATAAGTTCAAAACATGGAAA ACAACACTGCATAGAAATACAAAGGTGAGATAAACCAAAGAATGATAAACACAAAAT TCAGGCTAATGACGGTCTCTGTGTGGCAATGAGGGATAGAACTGGAGAGGGACACATGG [C, G] AAAATTCAAATGAAAGACACCGTTCTTTCTTAAATGAATGGATTCACTCGTTGTT GTACGATAATGCTTAAGCCATCCATAGAGTGGATAAGTGTCTTCTGTCTACTCATTA TTTAATAGAAATAATTAAACATTATAGTTATTCAAATTGATTTTGTGGTGTGA AATAGGTTCCAATGTTGTTCTAGGTGGATAGCAGGTTCCCCAGCATCATCTAT CAGAGAGCTATCTTCCCATTGGAGTGGTAACCTTATTATACATCTAATTTCATAT</p>
196291	<p>CCGTTGTTGACGATAATGCTTAAGCCATCCATAGAGTGGATAAGTGTCTTTCTGTC TACTCATTATTTAATAGAAATAATTAAACATTATAGTTATTCAAATTGATTTTGT GTGGTGTGAAATAGGTTCCAATGTTGTTCTTCTAGGTGGATAGCAGGTTGCCAGC ATCATCTATCAGAGAGCTATCATTTCCATTGGAGTGGTAACTCTTATTATACATCTAA TTTCATACATGGCATTATTCTGGATCCTGTTCTATTGCAAATCTGC [A, C] GTCACTGATTTGCCTTCTAGGTTGATCTCATATTGATTTATCACAGCAGCTTCTG GGTGAATGTTCTAGTATCTGGGAAGGCACATCCCCCTACAGTATTCTTCTTATT CCTGGTTATCTGGGGCACTTATTACTCAAATGAACTTTAAGATCATTCATCTAA GTCTAAAATGATTGCAATTAAATTGTTGATTTATGAGAATGTCCTACCCACGAATAA GAAATGTTCCAATCTTATTGACCTCAATAGGGTTACAGCCATTTTATAG</p>
196533	<p>TTCATATACATTGGCATTATTCTGGATCCTGTTCTATTGCAAATCTGCAG TCACTGATTTGCCCTTCTCTAGGTTGATCTCATATTGATTTATCACAGCAGCTTCTGG GTTGAATGTTCTAGTATCTGGGAAGGCACATCCCCCTACAGTATTCTTCTTATT CTTGGTTATCTGGGGCACTTATTACTCAAATGAACTTTAAGATCATTCATCTAA TCTAAAATGATTGCAATTAAATTGTTGATTTATGAGAATGTCCTACCCACGAATAA [A, C] AATGTTCCAATCTTATTGACCTCAATAGGGTTACAGCCATTATTATAGGT CCTATGGCTTCTGTCAAATTGTTACTAATATTATGGTTTACCATGATTATGA GTAGGTGGTTTCCGTTTACCTCTAATTATTGCTACTGTTGAGAGGAATGAT TAATTGTCATATTATCATCTGTCACAGTTCTCATATTCTTATAATTAA TTTTCACTGGAGTCTCTGGATTCTAAGTATACAGATACATAATCATCAAAAGAGA</p>
197176	<p>TCATTGTCCTGCTTATTACTTCCTTATGAATAAGAACATGATGATAACAAATATCCCT GTCTGGCTCCTGATTGAAACAGTTAGTGATTGGCTATTAAAGGAGTTTCTTC TATTCTTGTCCCTAGAGTTTAAATGGAATTATTACTGTTGATTAAAGACTTCTTAT</p>

		TTCTATTTCACTCTAGGTTTGAGATATGTCCTTCTTGACCTTGGAAAGACTGGAGTC TTAATAGTGACCAATTGTCCTTAAATTGCCCTGATATTCTAACCTTGGAAAGACTTGAC [A, G] TCTCAATAGTGACCAATTCTCCTTAAATTCTTCTGAAATTCTCCTGATTTCTTGTGTT GGCTCAAAAATCATAGTCCCCAAAAGCCTTCTTGTGCTGTGCTTGAATTCTCGTGGCA TTTGGTATTGTGTCACTATTAAAGGTGTCACTCCTCTGCAGTAGCTGAATTC TAGTCATTTTCAGAGGCTGGAGCTCCAGTGTATATGGTTCTTCCATAGCCTGTT GAAGGCAACACTGAAGTACCTTAAGGCAGTGGTGTCTCACAGAGTACCTGATAGGGC
199693		CAGTTTGCTGTGAGTTAGTCCAGTCACTTGCCCTAAGAATGTATAATTTCAGACTC CCCTACCTTGGAAAGCCAGGGGAGTTATAAGGGTCCAGTGAAGCCCTGGCGCAAGGGAA ATTGCAAGGGAAAGCATTTCCTTGGGTATTGTGAAAGCATGCTATTTCGATCTGCCTTT TAAAAACCATTCAATACATTTCAGTATAAAATATGTTCACCTTCATTAAGGCTGGCCTCC CGAACAGACGAACTACCCACATGTTCATGCACITGAATCAGTAAAACCAAATGGCTACT [A, T] CTTTCCAGTCCATTTCACCAACCTTCAAGGTTCACTCAGTGTCCGAATTGAGCACTTACT AAGTGCCTAGCTCTACATGAATTATCTCATGTAATCCTCAAAGCAATCCTGTAAGGGG CAATCCCAGTAAAGGACCATGTTATCGTCACTTTAAATAGGGAAAAGAAGGTGGAACCTT GCCTGGCTCACACAACATCAGCTGTGAAGGAGCACAGGACTGGTGGAGGCCAAGGTT TTACTGTGTTACTGTGTTACTTGAGACCCAGCGGGATCAACACAAGTACCGTAGGAAGGTT
199734		AATGTATAATTCAGACTCCCCTACCTTGGAAAGCCAGGGAGTTATAAGGGTCCAGTG AAGCCCTGGCGCAAGGGAAATTGCAAGGGAAAGCATTTCCTTGGGTATTGTGAAAGCATGC TATTTCGATCTGCCTTTTAAACCAATTCAATACATTTCAGTATAAAATATGTTCACCTT TCCATTAAAGGCTGGCCTCCCGAAGACAGCAACTACCCACATGTTCATGCACITGAATCA GTAAAACCAATGGCTACTACTTTCCAGTCCATTTCACCAACCTTCACCAATTCAAGT [G, A] TCCGAATTGAGCACTTACTAAGTGCCTAGCTCTACATGAATTATCTCATGTAATCCTC AAAGCAATCCTGTAAGGGCAATCCCGTAAGGACCATGTTATCGTCACTTTAAATAGG GAAAAGAAGGTGGAACCTTGCCTGGCTCACACAACATCAGCTGTGAAGGAGCACAGGA CTGGGTGGAGGCCAAGGTTTACTGTGTTACTGTGTTACTTGAGACCCAGCGGGATCAAC ACAAGTACCGTAGGAAGTTCTGTTGCAGCACTCCCCCTACCCACCCGCCCGCTCCA
	201371	ATTACCTTCCAGCAATGGATAACCATGTGTTCTGTTGAGCTTGGGATTGGAGAATGTG GTCAAGTCTTCAGAACTGGTCAAACACTGCTTTCATCAAGTGCACAAGCACCTCAGCATA AGGTGTGCTCACCGTTGAGTTGAAATCACCTGTGGTCACTGAGAATACATCACATCT GCCAGCAGTCACCTGTCCAGTTCAAGGAAAATAGCAGGAGAGGAGACAGGGAGGTGAT GAAGATGGAAACATCATAGTGGGAGGTAAGGGCTTAATGCCAGGTGTCCATGCATGAC [T, A] AGGAGTGGTTTGGGCTGTGATGTTACAGATCCAAGCAGGGCTTCTGAGCCCT GTAAACCTCCAGCCTTGTAGAGAAGTGTGCACTTAGGCCTCTAAAGCTATGTGTCCTGAGG TGGTGAGGAGCAGCCATCCTGCAGGCCAGGGTTGCTGATGTGTTGATGTCTGATGT TGGAGAAGCTCACACTATGGACATCTAGATCCTCCAGGATGAGTTCTTGAACCTGAAG CAGAGACCATATCACCAGCTGAGCAGATTATCCAAGTCAAGGGATTGGAGTGAGACT
201433		CAAGTCTTCAGAACTGGTCAAACACTGCTTTCATCAAGTGCACAAGCACCTCAGCATA GCTGTGCTCACCGTTGAGTTGAAATCACCTGTGGTCACTGAGAATACATCACATCTGC CCAGCAGTCACCTGTCCAGTTCAAGGAAAATAGCAGGAGAGGAGACAGGGAGGTGATGA AGATGGAAACATCATAGTGGGAGGTAAGGGCTTAATGCCAGGTGTCCATGCATGACTA GGAGTGGTTTGGCCTGTGATGTTACAGATCCAAGCAGGGCTTCTGAGCCCTG [T, C] AAACCTCCAGCCTTGTAGAGAAGTGTGCACTTAGGCCTCTAAAGCTATGTGTCCTGAGGTG GGTGAGGAGCAGCCATCCTGCAGGCCAGGGTTGCTGATGTGAGATGTATCCTGATGTTG GAGAAGCTCACACTATGGACATCTAGATCCTCCAGGATGAGTTCTTGAACCTGAAGCA GAGACCATATCACCAGCTGAGCAGATTATCCAAGTCAAGGGATTGGAGTGAGACTGA TTCAAAGCTAGGCTCTACCAACCTACTTGCTGTCTAACCATAGGCAAGTCACCTGACTCAT
201848		ATGTTGGAGAAGCTCACACTATGGACATCTAGATCCTCCAGGCATGAGTTCTTGAACCT GAAGCAGAGACCATATCACCAAGCTGAGCAGATTATCCAAGTCAAGGGATTGGAGTGA GACTGATTCAAAGCTAGGCTCTACCACCTACTTGCTGTCTAACCATAGGCAAGTCACCTG ACTCATGTTCTTAATCTGAAAATGGCATATTCATGCCACAAATATGTGCTGAGTA GGGCCTCTGTGTCACCTTAAGAGCTTAAAGGAGGATTAAATGAGCATCAGATGAGCTC [A, G]

	TAGATTCTAAGAGTTAGCATGGTGCCTGGTGGCCTGCCTCAGTAATAATAGTCACCT TACACATGGCCTCTGGCTGGGTGTTAACACACACATGCCTGGGAGGAATTACAGA TTCTCATCCCAACCCTGAAATATAAAATAGGGCGTACAGGGTGGAGGTGGACCTGACGCA GCCCCGGCATCCAGGGCATCTAGGAGTGTGGAGGCCTCACCAAGGTAGCCTGTAGTCAG AGCTCAGAGAGGGCTGCTCTTCCCACCAGCAGCCCTGAGGGTGGCAGAGAGTTCTG
202730	AGGTCTCAGGTCTAATCTCACCTCCTCAAAGAGGCTTCCCTGACCAGAGTAAGTGTGCC CGCTGCAGCACCCCTGGTTATTCCTCGCATTAAACACCACACTACACTGTCTTGT TTTTGTTTGCAGTTCACCCCTCTTGTTGCTTACACTGTCTAGTGTAGTGCCTGA GGATAGGAGCTATTCTGCTGAATCCTCAGCACCTGGAATCGGGACTGGCACATAGCAG GTGCTCAGTAAATTTGTTGGGTGAGATAGAGGGAGGAGCTGGCAGGCAGGAACAGC [G, A] GAAGTGGCCCGTTGTTACCAACCCACCCATCTTAGGGTAGACATGGCACGGGACTGGAGC GTGGGGCCTCTGCCTGGTTCTCACACAAACCTGAATTCTGCAGCTGCATACCCAGGACTT GGTGGTTCTGCAATGAGAGACTCGACAGGCACTCTGTCCCTGGACCACCT TGCCACGTGTGAGGTATAAGTTATCTAAAGCGGGGAAGAATACTGGGACCGTTATGTC CAATCCCTGGATGCGCACCCACATATCTGCACATGGCTACATGTACATGGCTTCCGC
204904	TTAACACTGACCCCTCAGAGTGCAGCCTGCAGGGAAAGGCCATGGGAGCCTCCCCAGCAAG TTAACGAAACGTAGGTGCCTGCTGCCCTGTGACGCTGGGCTCAGAGGTGCTCACTAC CATCTGGACACACAGCTTCAAAGGAGGGGTCAGGGAAAGTAGCTTCTCCCCCAGCCC CCCATGAACCTGGCTTGGTTGCCTGCCCTGGATGGAGTAGGTGGTCTCTGAAGCCCCT CCAACCTGCTCTCCAGGATTCTAGTTCTCTTACTCCAGAAAGACCCACCTCCACGGAC [G, A] TCCATCTTCCCCCTCATACCTCCATCCTCCACTTCTCTGCCACTTGGAGAAGGCA AGGAAAATGTACCCCTACCGGGTCAACACATGTGAGGCTTACCCACCTCCCCATCCGA GCCCTAGCCTGGCTCTTAACTCGACTGAATTAGCCTTCAGGAGATCAGTTCTGAAAAT TTCTGCATTTCTTAAACCTGAGTATACTGGGCCACAGCAGGAGCAAGGCTAGCACCT GTGGGACCTCTGAGGCCAGAGCAGGGCAGGCACTTGGGTAGGAGGATTAGAGAGGG
205171	TCTCTTACTCCAGAAGACCCACCTCACGGACGCCATCTCCCTCATACCTCCATCC TTCCACTTCCCTGCCACTTGGAGAAGGCAAGGGAAAATGTACCCCTACCGGGTCA ACACATGTGAGGCTTACCCACCTCCCCATCCGAGCCCTAGCCTGGCTTCTTAACTCGCA CTGAATTAGCCTTCAGGAGATCAGTTCTGAAAATTCTGCATTTCTTAAACCTGAGTAT ACTGGGCCACAGCAGGAGCAAGGCTAGCACCTGTGGACCTCTGAGGCCAGAGCAGG [G, A] CAGGCACCTGGGGTAGGAGGATTAGAGAGGGACACTTGGACTTGGCTGGTAGCAAGC ACTTCATAGAAAATGCCCTACAACAGTGACTTGGAGCTGGTTAGCCAGAGGGAGAAAAG CAATGGGGGCCAGGGCACACGCTCTGAAGCAGGCTGGAGAGGCCAGGGCACAGAGACTT TGCTCTGTTCTTCAAATGGCAATTAGTGGGTGCATCTATCTGCATGGAAAGGT TATTAACAGTGATCCATGGCAATGCTCGCTCCTGGCCCTGTCTTGGGAGAGAAAC
205991	ACAGGAAGGCGTGCAGAGGGCCGCTGAATGCCACTGGGCTTCATGGTACATGCGAAC AATTAGCAAAGTGATAAAAGAGATTCCGCCTCTTAGGATCTGCACTTTATACTGCT CAGAGATATTGACCTCTAGTTATTATGATTCAAGAAAAGTCATAACTCTTAGTT GCCAAGGCTGGAGGAATTAAATGAATTATGAACTCAAGCAGTTAATCTGCCATACTG ATTTTTTTCTTCAAATCTGAATGATGAAAAGCAGACTTAACCAAAACAAGAAAA [T, G] ATATTTTTTTCTTTTTTTCTCTTTCTGCTTAGACATTAAATCCATGGTAGGA GCCGGGGCTAAAAGTTGGTCAATTACTAGGGCATTCTGCTTGCTGAGTATTGAA TGGAGATTAAACACTAAAGCAAAGTCCTGAGGCTGTTAAATCTGATTCTACAA TTTCAGTTGTCTTGGTGTCCCTGTGTAATTCTCAACTTCCATCTGACCTTAGTGA CATGTGCTGATTATCTCATTCCAGACTCCCAGAATGCAAGTGTGATGGTAGGACG
206052	ATTAGCAAAGTGATAAAAGAGATTCCGCCTCTTAGGATCTGCACTTTATACTGCTC AGAGATATTGACCTCTAGTTATTATGATTCAAGAAAAGTCATAACTCTTAGTTG CCAAGGCTGGAGGAATTAAATGAATTATGAACTCAAGCAGTTAATCTGCCATACTG TTTTTTCTTCAAATCTGAATGATGAAAAGCAGACTTAACCAAAACAAGAAAA ATATTTTTCTTTTTCTCTTGTAGACATTAAATCCATGGTAGGA [C, G] CCGGGGCTAAAAGTTGGTCAATTACTAGGGCATTCTGCTTGCTGAGTATTGAT GGAGATTAAACACTAAAGCAAAGTCCTGAGGCTGTTAAATCTGATTACACAT TTCAGTTGTCTTGGTGTCCCTGTGTAATTCTCAACTTCCATCTGACCTTAGTGA

209185	CCAAGTGCCTGCAACACTAGAAGACAAAGGCGTGAGAGCAGTCAGGCTGTAAAGGCCTGGCACCAAGTGGAAAGGGGAGAGCTCTGCCTCACAGAACCCACTGAGGATGGTATGCTGACACACCTGAGCGGAGGCCATTCTGGCTGAGGTGGAGCAAAGGTGTGTTGGCCTCCGTTACATCTATCTGTGTCACCTGCACCCACCTAATGGGCCACTCCACTCAGCAGTCGTGGCAGCATGGAGTGTCTAGGCAGGGCAGGGCTTGGGAAATGTGCCTTAC[C, G]GGTGTGACAATAGTCTTGACACTTCACAGCTGTGCTTATGATGCTAATGCCAAGGTGCTTCAGAGATCATCTTCAGAGATCATGAGACACATTATGAAATGAGGCCAAATGAGCCTAGGAAAAACGTCCCCATTCTGGAAAGCACTGGAAAGCACTGCCAGCCACGTGCCAGTGCCTCTGCAACCAGTGCACACTAAACACTTGACCAAAACACTTGACCAAGTGGCTCCAGCTTATTGGCCGTGTTGAATTATAGACTGATGTTCCATTCTGGTTCCAATATCCTCAAATTGCATCTCCTAAAGGTTCTATTCTGCATCAGAGTGTGCACA[C, G]CCTCCCTCACCAATTGGTTATTCAAACACATTCTCATTTAATGGGAGGGAAAAACACGCCACACAAACCCACCGAGGTGAGGAGTGATGGGACAAGCTGGCGTGGAGGGGGCAAGCAGCCTTGAGCAGATCAGGGCTCAGTTCTGCTCATGCTGATTGAATTATCCACCGAATCCTCTGACTCATTGAGGTTTCACACATTGTGAGTTGCCGCCACTGGTATAGCAGTGCTCCTCTTAAGGACCCCTTTGGTGGAGAGTGGTGCCTGTGAGCTCCCAGAAAAGA
209499	GTCTGGACACTTACAGCTGTGCTTATGATGCTAATGCCAAGGTGCTTCAGAGATCATGAGACACATTATGAAATGAGGCCAAATGAGCCTAGGAAAAACGTCCTCTGGAAAGCACTGCCAGCCACGTGCCAGTGCACACTAAACACTTGACCAAGTGGCTCCAGCTTATTGGCCGTGTTGAATTATAGACTGATGTTCCATTCTGGTTCCAATATCCTCAAATTGCATCTCCTAAAGGTTCTATTCTGCATCAGAGTGTGCACA[C, G]CCTCCCTCACCAATTGGTTATTCAAACACATTCTCATTTAATGGGAGGGAAAAACACGCCACACAAACCCACCGAGGTGAGGAGTGATGGGACAAGCTGGCGTGGAGGGGGCAAGCAGCCTTGAGCAGATCAGGGCTCAGTTCTGCTCATGCTGATTGAATTATCCACCGAATCCTCTGACTCATTGAGGTTTCACACATTGTGAGTTGCCGCCACTGGTATAGCAGTGCTCCTCTTAAGGACCCCTTTGGTGGAGAGTGGTGCCTGTGAGCTCCCAGAAAAGA
209614	GGAAGCACTGCCAGCCACGTGCCAGTCTGCACACTAAACACTTGACAGTTGCTCCAGCTTATTGGCCGTGTTGAATTATAGACTGATGTTCCATTCTCTGGTTCCAATATCCTCAAATTGCATCTCCTAAAGGTTCTATTCTGCATCAGAGTGTGCACAGCCTCCCTCACCATGGTTATTCAAACACATTCTCATTTAATGGGAGGGAAAAACAGCCACACAAACCCACCGAGGTGAGGAGTGATGGGACAAGCTGGCGTGGAGCGGG[G, T]GGGCAGGGCAGCCTTGAGCAGATCAGGGCTCAGTTCTGCTCATGCTGATTGAATTATCCACCGAATCCTCTGACTCATTGAGGTTTCACACATTGTGAGTTGCTGCCACTGGTATAGCAGTGCCTCTCTTAAGGACCCCTTTGGTGGAGAGTGGCGCTGTGAGCTCCCAGAAAGACCAAGGGTGGCATCTCAGTTCTGGTACTTCCAGTGTGCTCATGCTGATTGAATTATCCACCGAATCTCTGCACTGACTCATTGAGGTTTCACAACCTGCTTCTCTGGGCTTTCCTCGACTGTAAATGGACTAATGGCAGTACCCACCT
209708	TTTTATAGACTGATGTTCCATTCTCTGGTTCCAATATCCTCAAATTGCATCTCCTAAAGGTTCTATTCTGCATCAGAGTGTGCACAGCCTCCCTCACCATGGTTATTCAAACAACTTTCTCATTTAATGGGAGGGAAAAACAGCCACACAAACCCACCGAGGTGAGGAGTGATGGGACAAGCTGGCGTGGAGCGGGGGCAGGCAGCCTGAGCAGATCAGGGCTCAGTTCTGCTCATGCTGATTGAATTATCCACCGAATCTCTGCACTGACTCATTGAGGTTTCACA[C, G]ATTGTGAGTGGCCGCCACTTGGTATAGCAGTGCTCTCTTAAAGGACCCCTTTGGTGGAGAGTGGTGCCTGTGAGCTCCCAGAAAGACCAAGGGTGGCATCTCAGTTCTGGTACTTCCCAGCTGTGGTGTGGTGCATCAGTCTGCTCTCTGGGCTTTCCTCGACTGTAAATGGGACTAATGGCAGTACCCACCTGCTGCAGCCATGGAGAGAAGTGAAGGGAGGGCTGCACAAGCACCACCTAGCACGCTGCCGTGGTGCATGGCATGGATTGGTGTGAGACCT
210292	TGGTGTTCATGAGACCTGCCATCATTATTTATTCTAAATCCAGCGTGGCCACAGGCCAGTAGAGAGATGCACAAACTGTGAAGAACGCAGAGGCCAGGAGCAAGGGTTCTGTCTGGAGTTGGGGAGAGATTCTGGGCCAGATTATTAAATGGTAGCTGGAGAGTGGTAAGGAAACATGAGTGTGCTCAGGAGCAGACACTCATGGCTGGGCCCTCTCCAGCAATGTCCACCTAGAGCCAGGGCTTCTCTTCAGATGGCCTCTGGGTCTGGACTCCAGTGGAAAGCCTCAG[A, T]GCCTCACCCCTCAGGGTCAGCTGTAGTCAGTCTGGTGGAGGGCAGAAGAGAGCTGGCTGCCCTCCTCGATCATTCCCATAGGGAGTGCCTGCCAGAACAGGAAAGACCTGGCACTGATTCAACGGCCTGAGGTGAGTGCTGGCTGGGGTGGAGCAGCTGACCTCACAGGAGCCTGACGGATGGAAGGCAGGCCAGCCCTGAGGTGAGTGCTGGCTGGGGTGGAGCAGCTGACCTCACAGGAGCCTGACCCACCATGGCTCCAGGGGGAGTAGAACGAAATAGATGACAGAGGGCTCTGACCTTCAGGGAAACCTCTGTGGGGACAGAGGGCTCTGGAACAAAGGAGGATATAAAGAACAAAGTTC
212286	CTGTCCTGCCAGGGAAAGCTTCTTACATCCCCAGCTTGTCAAGCCAGTCCAGCTCTCAGCGGGAGACTCACCTCCTGGGATGTGTGAGATCCAGCTGCAGGGCTGTGATGCTGTGCAGGCATTGATAGGGGATTAGTGTAACTCTGCTGGAGCAGTCCCTATAGCAAGAGGTGCTGGGG

	CCTGTGGAAGCATCAGGGAGGCCAGGCTGATGGGACAATGTGGCACGTGCTCAAGGGCA CTGCTTGGCACGTGAGCTTCTGCTCATTTACTCTGAAAATGGGATAATA [A, C] CAGCACTTACCTCATAGAGTGTGAGTATGACAGGAGCAGCACCTGGCATGCAGTGAG CATTCTCTACGCAGTGTCAACAGCACTAGGGATGATGCTGGTGCCTGTAACATCA CGGCTTATTCAAGGAGCAGATGCAACAAGCTGTAAGACCCTGCCCATTATGTGACAAC TCTGTAATGAGCTAACAGAGTCAGGGTGGTGGCTCTGTGAATGAGGGAGAGAAGA ACATTGGCCCTCCATATTAAATGAATGACTAGAATTGACCTCCAGTTGATCAAAG
212767	TCTGTAATGAGCTAACAGAGTCAGGGTGGTGGCTCTGTGAATGAGGGAGAGAAGA ACATTGGCCCTCCATATTAAATGAATGACTAGAATTGACCTCCAGTTGATCAAAG TTAATGATCACCTCTCTGTCTGCTAAGAGATGTAAGGAGCCACCCAAGTCTCATCTAGC AGGTTAGTAGAAAAGCAAGGGGAGAATCAGGTATCTGTGATCCCCAGTCTGGACAAAGCT CCTAGAATGTACCTCCGGGCTCAGGAAATGCCAGTGGAGCCTGGGTAAGAATTCATC [T, C] GCCTGAAGATGAGAACGTTAGAGAAGGTGCTGGAGGGAGAGGGACCTTCAAGGTGGATT TTGAAGAGCAAGGGAGGTTGCTAGGTTGAGAGTGTGGGAAGGCTTCTAGGAGTACA GGCATGAAGTACCTCCAGTCTCCGGGAGAGCAAGTGTGATTATGGGATCTGGGTGAGGG GAGAGCATAGTTGGGATAAAGGCAGACAAGTGGATCACAGCAAGCTGGGAAAGGCCTT GTGTGCCAAGCAGGGAGTCTGAACCTAAGCTGACCTGACCAGTGTGTCAGAATTGGTGGG
212809	GAATGAGGGAGAGAACATTGGCCCTCCATATTAAATGAATGACTAGAATTG ACCTCCAGTTGATCAAAGTTAATGATCACCTCTGTCTGCTAAGAGATGTAAGGAGC CACCCAAGTTCATCTAGCAGGTTAGTAGAAAAGCAAGGGGAGAATCAGGTATCTGTGATC CCCAGTCTGGACAAAGCTCTAGAATGTACCTCCGGGCTCAGGAAATGCCAGTGGAGC CTGGGTAAGAATTCTGCCTGAAGATGAGAACGTTAGAGAAGGTGCTGGAGGAGAG [G, A] GGACCTTCAGGTGGATTGAGAGCAAGGGAGGTTGCTAGGTTGAGAGTGTGGGGA AGGTTCTAGGAGTACAGGCATGAAGTACCTCCAGTCTCCGGGAGAGCAAGTGTGATTAT GGGATCCTGGGTGAGGGGAGAGCATAGTTGGGATAAAGGCAGACAAGTGGATCACAGC AAGCTGGGAAAGGCCTTGTGTCAGCAGGGAGTCTGAACCTAAGCTGACCTGACCAGTGT GTGTCCAGAATTGGTGGTTCTTGGTCTCTGACTTCGAGAATGAAGCCGGGACCCGC
213100	GGAGGAGAGGGACCTCAAGGTGGATTGAGAGCAAGGGAGGTTGCTAGGTTGAG AGTGTGGGAAGGTTCTAGGAGTACAGGCATGAAGTACCTCCAGTCTCCGGGAGAGC AAGTGTGATTATGGGATCTGGGTGAGGGGAGAGCATAGTTGGGATAAAGGCAGACAAGT GGATCACAGCAAGCTGGGAAAGGCCTTGTGTCAGCAGGGAGTCTGAACCTAAGCT GACCAAGTGTGTCAGAATTGGTGGTTCTTGGTCTCTGACTTCGAGAATGAAGCC [G, A] CGGACCCGGCGGGTGAGTGTACAAGTCTAAAGATGGCGTGCAGGAGTTGTTCT CTGATGTTGGACGTGTTAGGTTCTCAGAGTTCTTCTCTGGTGGGTTGTTCTCGCTGGCTT CAGGAGTGAAGCTCGGGACCTCGCGGGAGTGTACAGCTCTAAGGCAGCGCTCTGG AGTGTGTTCTTCTCCCGCTGGGTTCTCGCAGGCTCAGAAGTGAAGCTGCAGA CCTAAGGCAGTGCAGGACCCAAAGACTGAGCAGCAGCAATATTATGCAAAGAGCGAAAG
215017	GCTGGCGGGGCTTCCCTGCTCCGCAGGTCTTAAGAACGCCAGCTGCACCTCTCCAGGG AAAGCTGGCTCAATCATCCAAACTCACAGAGCTCTGGACATCAGGAAACCAAGCCCT GTCTCCTTCTAAGGAAAGACTGAGGAAACTGAGGGATACCCAGAAGGTTACAGGGGAAC CTGGGGTCAAAGCAGGCAGAGCCTCTGGGACAAGCCTACCTCAGCCTGGTCTGGCCT TGGAGCTGGCCTCCACTTCTCTCCAGACTCCCTTCTGTCCCTCCAGTTGCCCTCC [A, G] CTTCTGGGCTACCCACATTCTGTCAGTAGCCGCTGTTCTTCTAGTCTTGAA GGGATCTCTGTCCTCAGCCCTTCTGGCTTCACTTAAAGCTCCACAGAAGAGGGT TTGGCTGTTCTGCCAAGCCACTCACCTCACAGACATCTGTGAATGCCACTGGTG CTAAGGCTGTGCCAGGACCTGAGGGATACCAAGTATGATCAGAACACCCGGGCTGACCTCAA GGAATTATAGCCAAAAGAACGCCACACATCTCCACCCCTCTGGGTTATCTTTGGGAGC
215021	GGCGGGGCTTCCCTGCTCCGCAGGTCTTAAGAACGCCAGCTGCACCTCTCCAGGGAAAG CTGGCTCAATCATCCAAACTCACAGAGCTCTGGACATCAGGAAACCAAGACCCCTGTCT CTTTCTAAGGAAAGACTGAGGAAACTGAGGGATACCCAGAAGGTTACAGGGGAACCTGG GGTCAAAGCAGGCAGAGCCTCTGGGACAAGCCTACCTCAGCCTGGTCTGGCCTTGG AGCTGGCCTCCACTTCTCTCCAGACTCCCTTCTGTCCCTCCAGTTGCCCTCCACTT [C, T]

FIGURE 3, page 162 of 188

215180	TGGGCCTACCCACATTCTGCCAGTAGGCCGTTGTTCTTCAGTCTTGCACAGGGAA TCTCTCTGCCAGCCCTCTCCTGGCCTCACTTAAGCTCACAGAAGAGGGTTGG CTGTTCTGCCAGCCACTCACCTCACAGACATCTGCTGAATGCCACTTGGCTAA GGCTGTGCCAGGACCTGAGGAATCAGATGACAACACCAGGCCGCTGACCTCAAGGA TTTATAGCCAAAAGAAACGCCACACATCTCCACCCCTCTGGTTATCCTTGGGAGCTGCT AAGGT TACCAGGGAACCTGGGTCAAAGCAGGCAGGCCTCTGGGACAAGCCTACCT TCAGCCTGGTCTGCCCTGGAGCTGCCCTCACCTTCTCCAGACTCCCTTCCGTC CCTCCAGTTGCCCTCACCTCTGGCCTACCCACATTCTGTCAGTAGGCCGCTGTTG TCTTCAGTCTTGCAAAGGGATCTCTGTCCCCAGCCCTTCTGGCCTCACCTTA AGCTCCACAGAAGAGGGTTGGCTGTTCTGCCAGCCACTCACCTCACAGACATCTG [C, T] TGAATGCCACTTGGTCTAAGGCTGTGCCAGGACCTGAGGAATCCAGTATGATCAGAAC ACCGGGCCTGACCTCAAGGAATTATAGCCAAAAGAAACGCCACACATCTCACCCCTCTG GGTTATCCTTGGAGCTGTTAGCCAGAGATGCCCTCAAGGACCTCAAGGACAAACGGG AATCTTACAGACTGTCCTCATGTTGGATAACCCCTCCTCACTCCTCCGCGATTCTG CAGCATCTGTGAAAACAACTAGGACTTCACTGAACGTACAGTTCACTCATAGCCCCGTAG
215370	TTTGCAGGGATCTCTGTCCCCAGCCCTCTTCTGGCCTCACTTAACGCTCCACAG AAGAGGGTTGGCTGTTTCTGCCAGCCACTCACCTCACAGACATCTGCTGAATGCC ACTTGGTCTAAGGCTGTGCCAGGACCTGAGGAATCCAGTATGATCAGAACACGGG GACCTCAAGGAATTATAGCCAAAAGAAACGCCACACATCTCCACCCCTCTGGGTTATCCT TTGGGAGCTGCTTAGCCAGAGATGCCCTCAAGGACCTCAAGGACAAACGGGAAATCTTAC [A, G] GACTGTCTCTCATGTTGGATAACCCCTCTCCTCACTCCTCCGCGATTCTGTCAGCATCTG GAAAACAACTAGGACTTCACTGAACGTACAGTTCACTCATAGCCCCGTAGTCAGCATCC CTGGGAGCTAGTGTCCCATTACAGTATGTCCTCCAGGATCAAGAAAAGTACCTAA AACAAATATGTGTGTTCTTGGATATTCTCCAGGTTTATGCAAGGAACGTGTTGGT GTGAGCACCCCGCAAATGTCAAGAATTATCATGTTGGCATGTTGGTGTGCTCCACA
215412	TCACCTTAAGCTCACAGAAGAGGGTTGGCTGTTTCTGCCAGCCACTCACCTCAC GACATCTGCTGAATGCCACTTGGTCTAAGGCTGTGCCAGGACCTGAGGAATCCAGTAT GATCAGAACACCCGGGCTGACCTCAAGGAATTATAGCCAAAAGAAACGCCACACATCTC CACCCCTGGGTTATCCTTGGAGCTGCTTAGCCAGAGATGCCCTCAAGGACCTCAAGG ACAAACGGGAATCTTACAGACTGTCCTCATGTTGGATAACCCCTCCTCACTCCTCCG [G, -] GATTCTGTCAGCATCTGTGAAAACAACTAGGACTTCACTGAACGTACAGTTCACTCATAG CCCCGTAGTCCAGCATCCCTGGGAGCTCAGTTGTCCTATTACAGTATGTCCTCCAGGA TCAAGAAAAGTACCTAAAACAATATGTGTGTTGGATATTCTCCAGGTTTAT GCAAGGAACGTCTGGTGTGAGCACCCGCAAATGTCAAGAATTATCATGTTCCGGA TGTGTGGTGTGCTCACAGAACACTGCTGTACTTGAATGAATTAAATTACATTCCAGTAATT
216552	TCTTGCAGCTGCTCCAGGTCTTCCCCGGGCTCTTCTCACAGTTCCAGCCATGCC TCAAAGACCCAGACTGTCACGCCAGAGCAAAGACCAACCATATCTCATCCCTGACCTCTC CTCACGTTCTAGCTACCTCTCATTCCACCTGGGATGGCATCCACCATCATCTCTG GCTGGATGACCTCTATGGCCTCTAGCTATTCTGTAGGCCGGGTAGATGCTTCTCA AATCCACTTCCATATGGCATTAGAGTAAGCTTCCAAGGATGAAACTTGACCATGGT [C, T] TGTCTGCTCGAACCCCTCTGTCAGTTGTCAGCAATTTCATGTAATGCGTCAGAT ACTATTGGAGATGTGGGACACAGCAGGGAAACAAACAGAGCCAGTCCCCATGGCAGG TACAGTCTTGTGGAGAAACAAACAGTAAACAAGAGATGAAGTCTATGTCATGGT GTGCCATGGAGCAGAATAAGCCAGGAGGGCAGTTAGCCAGAGCCTCTGATATGAGAAGT GACATTGGCAAAGGTCTGAGCAGGCCGGGGTTAGGGAGTGAGGCATTGAATATC GACATTGGCAAAGGTCTGAGCAGGCCGGGGTTAGGGAGTGAGGCATTGAATATC
217007	AGATGAAGTCTATGTGATGGTGACAAGTGCATGGAGCAGAAATAAGCCAGGAGGGCAGT TAGCCAGAGCCTCTGATATGAGAAGTGCACATTGGGAAAGGTCTGAGCAGGCCGGGG GTTAGGGAGTGAGGCATTGAAATATCTGGGGAAAGAGTATCCAGGAGTGGCAATACAA AGTTGCAAAGATCTAACGGTAGGAGCTGCTAGCGTGTGTTGGGCTCACAGGGGG CAGAGTTGCTGGACCAGGGTAAGTAAGCAGAGAAACTGAGCAAGTCGGAGGGCTGATG [A, G] GGTTGATCTCCCCATAGGGCTCTGTCGGCCATTGGAGGCCAAGTTCTTGCACCTGGG TATATTGCCCTCTCATTACTCCGTGAGGCCACCCAAAGTGGCTTGTAGGAGGGAGG GAGTGCACATGGACATGGCCCTCTCCCCAGGCTTCTCCGAGGAGGCTGTTGAGGAAGGCC GAGTGCACATGGACATGGCCCTCTCCCCAGGCTTCTCCGAGGAGGCTGTTGAGGAAGGCC

217549	TGTGGACAGGAGGGGTGCCGGCTCAGGTGCTCAGATCCATGTGAGTGGACCCCTATGCCAACACTCGAGAGGTTTCAGATGATCACCAAGGAGCCAGATGTTAATTACTGGAGCAAGA CAACACTCGAGAGGTTTCAGATGATCACCAAGGAGCCAGATGTTAATTACTGGAGCAAGA AGAAGTTGATTGGGACTCCTTAAGGTTCTCCCCTATCGTCCTCAATTAGATCAAG GCCCGCGTAGCAGCGCTAAATGACACCATGATTGAATCTCTGTGCTCAGCAGTT GTCTAATTATCTGTGTAGACTCAGCAGCTGCAGACCAGCCACAACCTCAAATAGTG GTCTCTGTACGCCCTGCCCTCAAAGTGTATTGCCACTAGCAAGCTCAAGGACAGACT [A, T] CATGCTCTTTCTAGATGTGGATCCCTTCAGGTTCTGCTGCCTAGTGTATAAGG CATTGAAGGGGCCAGTGGCTGGGAGGACAGTGGGTACAAGAATTGAGCAGAGGCCCTGGG GCTCGCTGTTCCCTCCCTGCCCTGCCCTTGCTGCCTCGCATGATCACTCAGCCTCT GCCTGCTTTCTGGACAGGGAAAGCAGTGAACCCAGTTGGGCCATCTCTCCAAAGAGAGG GAGGAGCACTGCCACTGTGTCAGTTAAGTGAATAATGAGGGGATCAGGAGGCACT [A, G]
217567	AGATGATCACCAAGGAGCCAGATGTTAATTACTGGAGCAAGAAGAAGTTGATTGGGACT CCTTTAAGGTTCTCCCCTATCGCTCCTCAATTAGATCAAGGCCCGTGTAGCAGGCC CTAAATGACACCATGATTGAATCTCTGTGCTCAAGCAGTTGTCTAATTATCTGTGTGA TAGACTCAGCAGCTGTCAAGCAGCCACAACCTCAAATACGTGGCTCTGTACGCCCTGCCT CAAAGTGTTTATGCCACTAGCAAGCTCAAGGACAGGACTTACATGCTCTTTCTAGAT [A, G] TGGGATCCCTTCAGGTTCTGCTGCCTAGTGTATAAGGCATTGAAGGGGCCAGTGG CTGGGAGGACAGTGGGTACAAGAATTGAGCAGAGGCCCTGGGCTCGGCTGTCCCTCC TCGCCCTGCCCTGTGCCTCGCATGATCACTCAGCCTCTGCCTGCTTTCTGGACAG GGAAGCAGTGAACCCAGTTGGGCCATCTCTCCAAAGAGAGGGAGGAGGACTTGCCT TGTCAAGTTAAGTGAATAATGAGGGGATCAGGAGGCACTGACCCAGGGAGAGTAAA [A, G]
218100	TGCCACTGTGTCAGTTAAGTGAATAATGAGGGGATCAGGAGGCACTGACCCAGGGG AGAGTAAATGACTGCTCATCTCCATCAGCAGAGAGTGTCTCAGGAGTAAACACTTCCC GCAGAGCAGGCTCATTGGATGAAGGAGGAACAAGACCAACACAAACACTGAATGTAAGG TCTGGGAGTTGAGTCCTCAGCCAGGAGAACTGAGGGACAGAACTACAGAAAGCTGGGG CCAGCCTGTACAGCATCCTGGCTCCGGGAACCACCCATGCTCCTGATTGTAGGTGA [G, T] CTTGTGCCAGTCTGCACCTGGGTGCCTCATGAGGGCCAGATCAGAACACATGTATT TCCAGGCTAATGAGGGAAAGACAGAGCTAACAGTGAACACTGAGTTGGACATCTCCTAG AGAGTCTCCCTCTGCTTTCTTGTGCTCATTCTGCTTTGATGCAATTGAT CACTGTTAATGAAAGTAATCAGAGTAAAAACTACTTCAAAAGCTCCTCTAAAGGAAA GTAGCAAAATCACTTGCTGCAGGTAATTAAATAGCCAGATGCACTGAACTCCGTC [A, G]
219737	CTTTGGGAAAAATTATTACAAGAAACAGAAGCTATTAGACAGCAACTGTGTTCA TCCCAATGCAAGAAAACATGAACTCTGAAATGAGATAAAAATGGATTGTAATTGGG GAGCCACAGTCAAAAATAAAATGGAAGCTGGGGAGGTAAGGAAAGAATATAAGAACCT GAAATACAATTGCAAGAGTTCTCTCCACTTCAAGCAGTCAGGAAAGATAACCATA CAGAAATCATAGTTGTTCAACACAGGGAAACAAACTGAAAACCGCTCCCCAAATACAC [A, G] AGAATGAGAAGAAGATTAAAAACTGTGGGAGAGGATGATAGTTATGTAAGACAGAG ATAAAAGATTAAAAATAATGAGTTGTTATCTTAAAGACCTCAGAGCAATTCAAATGG ACACAAATAAGCAAAGAGAGATCCAAAAAAATAAGTGCCTTACACTGAAAGATCTAC TAAGTCAAAATATAATTGCTGACATTAGGTTTGAaaaaaaaaaaaATTAAAGTGTACTG AATATCCAGAGAGAGAAAAACAAAGCAGACAAAAAAAAAAAGTCTCACCTGGTGTG [A, G]
220681	TTCTCACAGAGAAAATCAGAGAACTGACAAAGAGGAACCTCAAGGCTTAGGTGAGCACAGAG GCTCTGAAATGAGAAGGTGCTAAATAACTTTTCAAATATAGTTACCAAAAATTGCAAC AGGGTAATGAGGTTAAGTGCCTTAATTCTGACTGACTTATTGGAATTCAAC AGATCTGCATAATCCTGACTCGGTATGTTAAAAGCATAACATGAGGGCAATATTCCAT CAGAGCCAGAACAAACCTCATGCAGCCCCAGACAAGTGCCTAGGCTGTTCCAGGTGA [C, T] CTGGGAGACTTCACCTCCTGCCCTCACTGGTGTATCCAGAGACCATGGGAAGGATCAGC ACTGACTGACGTGTTGACCTACGGTGGGCTCCCCGTGCCTTACATCTCGGGCTAGA GTGTGCTCCCCAGAAAGCATGCAGGGCTACAACCTGAAGTGGAAAGAAAACCGCAGGGTCA ATAGTGTGCTTCTTGTGATGAAGCCTTGTGATGGCTGTTCAATGGCTGTTGAGTATGCCAGT GACATGGTCAAGGACAATTGGGAAGGCCTGAACATTGGTTCTAATGGTTCAATGGTCAAGTCA [C, T]

221225	ATGGTCAGGACAATTGGGAAGGCCTGAACATTGGTCTAATGTTGAGTCATAACAATG TGATTAACCAATTAGAGAGAAATGCATAAGAGCCAAATTCTGTGCCAAGAAAAGGCAA GAAGGTAGAAGAGCTGCCCTGTTAAGAGATAGAGGTTAGAAGTCACCCCCAAGGCAATA AAGGGCACCATGGGACACAGCCTGCAAGAAAAGAAGGAATGCCATCAGGGTGGGTGG ATAGGATCATGGGAAATACACATTCTCATTCACGGAGAATGTGCCAGGCTGCCAGCCCAC [C, T] GCCAGGGCTGTATGGACGTCATCTCATGCACTCCTTTCTAGTTGGTGTACTGAGA GGCAAAGAGAACGCCAGATAACTTCCCAGTTACTGGACTTGTAAATGACGCCACCAGTAC TGGCACCTGCCCATCCCCTTCAGTGTGTCACTGGCCACTCCATGATIAGGAGAGAT ATTGTCAGGGAGTGGGCTTGACCTGAACCTGGAAGAGTGGTGGGTGGACATGAACA ACCAGGTACAGGGCAGGGCAGCAGCAGAGGGAAAGACTTCATGCAGCTTGCTGATGTT
221960	CCAGTTGTTTAATGAAATGAATCACATTACACCCATCTGCTTGAACCTCAGTGGC TGTCTCACGTGGCTATGTGACGTGACAACCCCAGTGAGCACATTACAAAGGAAGAAAGT CCCCGCCAACCGTAAACACAGGGTGAGGGCTTCGTTGACAGGAAGAAAAACGTC CATATTCTCGGTACACCTTCTGTCCTCCACTCTGCTGGGTCCTTCGCAAG GTCCCCACCTCTGCCCCCTGCCAAATTTCAGTGACATGAAGATCTCGTTATGTGCCAGG [A, C] TTGTCCTAACAAACATTCTCCTAGCAATTAAAGGAACAAACTTCCATATTAAAAAACT TTTGTGGTCTCAGGGTAACAAACTGTGGTATCAGGAAGACCTGAAGAAATGGGAATC TATACAAAAGGAAGGCAAAGTCCACTGCTGAGAAATGTGGTTCTCTGTAAAACATGC TGACAGAACCCATATACTAATTAGAGAACAGTTGGCACAAAACAAGATGCCAGTTG AGCGTGCCTGCTAGAAGGCTGGGAAGGAAAGAACATTGAGTGAAGGCACCACCAAGGATTC
222673	ATGAGAACATGGAGGGCAGGGTAACAACTAACTCAAAGAGCCCAGTGTGACATGCCAGGTCCA AGGCTGAGCATCTGTGCACTTCTGTTAATTCTGTGACAGCCCTCAGGGTAAGG ACTGTTATTACCCCTAACCTGGCAGGTGAGGAAACTGAGGCTCACAGAGGTTAATGACT TGCCCAACACCCTAACCCGGTGAGGAGAGCTGCAATAAAAGACTGATTGAAATGTT AAATGTTGCTTGTCTGCTGCTGCCACATCTTACATGTATAATTAAAAAAA [A, C] ACACACACACATAGTGATTATCATTCAAGCAACTGGCAGATTGTGCCCTGCACTCTCACTT GTGTTCTGAAGCAACTTCTGCACGTAGCTGACATGTGCCCTGTTAGCCACTC TTGACTCGACAAAGAAATTGTGATGGTTTTGAAATCTTGTCTTGTGTTTTGT TCCTTCTACTATGCCACACTGTCTATGTATATAATGATTCTGTAAATTAAAAAGGAAGG AGGCCCTGCACTGAGCACCTGCGCAGTCTCCCTTTCAAAATTAGCAAAAAGCCGGG
223053	CTGCACGTGTAGCTGACATGTGCCGTGTTAGCCACTCTGACTCGACAAAGAAATT GTGATGGTTTGAAATCTTGTCTTGTGTTGTTCTACTATGCCACAC TGTCTATGTATATAATGATTCTGTAAATTAAAAAGGAAGGAGGCCCTGCACTGAGCACC TGCGCAGTCTCCCTTTCAAAATTAGCAAAAGCCGGGACTATGTATGGCTCACCT CAGAGGAGGCCAGTGGACAGGGTGGCTCAGGACCAGCTGCTAAGTATTGCTGCCAG [T, C] GGACTCAGCCTCTGTGCAAGCCCATGTTGGTTCTAGGGGACAGGAGCCTGCCCCAG CCCGAGATGGCAGTCTTGGAAAAGGAATTCAAGGGTGGGTGTGATCAGGGATAGAGCTTCT CTAGTGTACATCACACAGGAACCCATGAGTGGTACCGGATGTGCTCTAAACCTCATCCT GCCTGTTGTTCACACTCCTGAGGATAGTAAAGTAGTGGTCCCTGTTCAACACTGCAC CGATCAAGTTCATCTGTGTTCACGATTCTAGAAAGATCTGTGATTCTGCATCT
223881	AAGGAACAGGGAGGCCTCCAAAAGGGGGTGCATCTGGACTGAGTACTAAATGATGAGAA ATGGGTTAGAGAAAAGAGGAGGGAGTCTTCTAGGCAAGGGTAGGATATGAAGCCAGCA TGGGGAGCCACAAGCCAATTGGTCTTCTCAAATATAGAGTTAGGGCAGAGAGAAAGC AGCAAGGGCAAGCCTGAAAGGAGCTTGGCCAAGCTGGGCCAGACCTGGACCATCAGG TTAAGGAGTGTGGACTTCTCCTGGATGCAAGGGAGGCAGCATTCTAGGGTTAAACC [A, T] TAGGCCTGGTGTTCAGAAAGATCACCTGTGTTGCCCTGGGACAGAGTGACCCCTGGAGGC AGGGGCCAGCAGGAGGCATCGAGGACATTCAACAAAGCCACACAGAAGCCTGAATCGGG GGAGTGGCAGACCGGAGAATCACTTAGGAAAATACAGTCAGCAGGACCAGGCAGTGT TGTAAAATTAAACCATCACACCTGCCACCCAGGATGGTCTAACTGCCTCCATC CTTAGCCAGTCCTGCTAACAGAGTACAAGTCATCTCAGCGAGGCCTGAGTGAATC
224236	GGAGGCAGGGGCCAGCAGGAGGCATCGAGGACATTCAACAAAGCCACACAGAAGCCTGA ATCGGGGGAGTGGCAGACGGAGAATCACTTAGGAAAATACAGTCAGCAGGACCAGGC ACTGATTGTGAAAATTAAACCATCACACCTGCCACCCAGGATGGTCTAACTGCCTTCC

	TCCATCCTAGCCAGTCCTCGTCAAGCAGAAGTACAAGTCATCTCAGCGAGGCCTGAGT GAAATCCTCACTGACAAGAGCCAAGTTCCCATTGGGCTGGGCCCTGAACAGTCCTG [G, T] GAAAGTGTAGCCCTTCGTAGGGCGCACCTGTCACCACCCGTCTGAAAGCGGGCCA CTGACTCAGAAAGGAAATGTGGCTTGGATGCCGAAGTCAGAGTGTGATTCTCCTACCTG TGGCTAGTCCCTGTCCGTGACTATAGATGGATGGAGTGTGACTCTAGGGTATTGCA CCTTCCTTCTGAGTTGCAACCTCCACCTCCAGTACGCAGGGTTCGCAGGAGGGTGG GGAAGCAGCTGATTCCAGAAGTCTTACCTCCTCATCCACCAAGCCTCAGAGGTGCTT
224238	AGGCAGGGGCCAGCAGGAGGCATCGAGGACATTCAACAAAGCCACACAGAACGCTGAAT CGGGGGAGTGGCGAGACCGGAGAATCACTTAGGAAAATACAGTCAGCAGGACAGGCAC TGATTGTGAAAATTAACCATCACACCTGCCACCCAGGATGGTCTAAGTCAGCAGGCTTCC CATCCTTAGCCAGTCCTCGTCAAGCAGAAGTACAAGTCATCTCAGCGAGGCCTGAGTGA AATCCTCACTGACAAGAGCCAAGTTCCCATTGGGCTGGGCCCTGAACAGTCCTGG [A, G] AAGTGTAGCCCTTCGTAGGGCGCACCTGTCACCACCCGTCTGAAAGCGGGCACT GACTCAGAAAGGAAATGTGGCTTGGATGCCGAAGTCAGAGTGTGATTCTCCTACCTGTG GCTCAGTCCCTGTCCGTGACTATAGATGGATGGAGTGTGACTCTAGGGTATTGCAAC TTCTTCTGAGTTGCAACCTCCACCTCCAGTACGCAGGGTTCGCAGGAGGGTGGGG AAGCAGCTGATTCCAGAAGTCTTACCTCCTCATCCACCAAGCCTCAGAGGTGCTTC
225653	AGATGGTACCTGGGAAAGCACCTGCTGAGCCCACCAGGGTCTGGCTCTGGAATGGCAGG AGGAAGTGCAGGATGTGGGCCACAGGAAGAGCTGTGACTGGGAGACATTGAAACTCAGG GTAGGACAAAATCAGGGTGGCCGGGCTTGGCAGCTGGGAGTAGCTGGTATGCCAAT GGAGAGGTATTCAAATGGCCAAGGAGTAACATGTCAAGTAAGTCCATGGCAGC CAGAGCCTGCTCCAGCCACCTGAATATCCACCAGGCAGTTGCACGCTCTGTTCCCTTC [T, C] CCCAACCCCCCTCTCTCTCTCCCTGTCTCTCTGTGCCCTTTCTTCCCTGTACT CCTCTCATCTCTCACCTCTATTCTATTCCCTTCCGTGCCCTCCCTGTGAGGTCT GACTTGAGTGTGCCTACACATATCTAAAACAAGTGAUTGAAATAATGTGTTCTCAGTTA ACTGGGAGTATGATTACATGGTCAAGCTACTAGTTCTATGTGAGGGAATTAAGCAGT TTCCCTAGCAGAGTTGAGACAGTCTGAAATAGATGATCACCCATGCTCCCCAGCATCAGG
226563	AACAAC TGCAAAACCTCGGCACCCAGTAAAAGTTCTCACTCACGCAGTACATCCAGCA TGGTCCGCAGGGCTCAGTCACAGACCCAGGCCACATGGCCTCTGCAGTCAGTGT GTAGGGAGGCAGGCATCTGAGAACAGGAGGATTGGCAGGAGGGTTGGCAGGAGA GGCTGAGCAAACCTCCTCCGTAGAGGGTGTCTCCCCACCTCTCAGGGGTATCTGG GCAGACCTGCTGAGCCACCATGGCTGGGCTCTGAGATGACCAGGAGGAAGTCAGGA [G, T] GGGAAGGGATGTGAAGAGGGAGTAAACCCCAAGGTAGAGCCTGGAATTGACACACAT TCACCTAAACCCCCATTCTGGAAAAGTAAGTCACACAGCCACAGCTAACCTGGCTAA CTTCTCTGGAGGACAGAGGCCCTGCTCTCATGTTCTCTCAGTCCACGGCATCC CGGCCAGCGTTAACTAGAGTGAGGGCTGAGTGTCTAGGAACAGCTTGAACACACAA CCCTGCACATAGCTGTGTCACGTGCAAGGCTGACCTACTGGCATATTCAAGAATTGGA
227365	GGAGGTGACCACTGTCCTCTGTGATAATCATCTCCAGCTTCTTTAGTTATCTAA ATTATATTCATAAAATGTGTCACACATGGTTACTTCTCTTGTGTTGAACCTCATAT AAATGGAACCATGCTGGGGTGTCTTTCAGATTATTCTTACACTCAGTATCTGATT TGTAAGACTAGTTCATATGGGTATAGTCATACCTGTTCTTCTATTCTGGATATCCC CTTGATATAACTATGCCACGATGTATCCATTCTGCTGTTGACAGCCAGCATTGGGTTAAT [G, T] CCCATTGGAGATATTCCAAGCTGTGCAACTGGAATCATTCTGGATATGCTTCCTGTG CACCTGTGAAAGTGTCTCTAGCGTGTACTCTAGGCAGCTGTACTCTCCTCTA GATATCACCATACTCTTCCAAAATTGGTGGACAGCTTCTGGAAACACAGTGTG GAGTTCCCTAAATTCAATTCTTACTAACACTTGAGTACTATAAAACCCCTTTGACAAA ATGCTTTCTGCAACTACTGAGGGTTGGCCCTTTCTATTGTTATTACGGTAATT
228457	AATTGTCCAATTCATCAAAGTTGTCATAATTATTGGCATATACTGTTCATACTCTTCC CTTATAATCCTTTTATTGTAAAGTCAGTAGTAAATATCATCCTCCTTACTATTGTTAG TAATTGAGACTCTAAAAAATTGGTGTAGTCTAGCTAAAGGTTGTCAATTGTTG TGATTTTTTTGAAAGAACCAATTGGGTTGTTGAGTTACTCTATTGCTTTCT ATTCTCTTCTGCAACTACTGAGGGTTGGCCCTTTCTATTGTTATTACGGTAATT [G, A]

		TTTAGTTGCTCTTCTTTACTATGTGTTAGGTATTGATTGAA TTGTTTATTATTTATTTTTGGAGATAGAGTCACCTGTCACCAGGCTGG AGTCAGTGGCTCACTGCAACCTGTCAGGTCACGCCATTCTGCCTCAGCC TCCCGAGTAGCTGAGACTACAGGCGAAGCCACCACCCAGCTAATTGGTATATT GTAGAGATGAGGTTTACCATGTTGGCAGGATGGTCGATCTTGACCTGATCC
228488		TATTGGCATATACTTGTTCATACTCTTCCCTATACTCCTTTATTGTAAGTCAGT AGTAATATCATCCTCCTACTATTTTAGTAATTGAGACTCTAAAAATTGTTGTT AGTCTAGCTAAGGTTTGTCAATTGTTGATTGTTGAAAGAACCAATTGTTG GGTTGTTGAGTTACTCTATTGCTTTCTATTCTCTTCAATTAACTTCAGTTAATCT TTACTACTTGCTTGCCCTGCTGTTGGGTTAGTTGCTCTCTTTACTATGTGTT [A, G] TGGTGAAGGATTAGGTTATTGATTGAAATTGTTTATTGTTATTGTTGAA GATAGAGTCTCACTCTGTCACCAGGCTGGAGTGCAGTGGCTCACTGCAACCTCTGCTCT CAGGTTCACGCCATTCTCCTGCCTCAGCCTCCCAGTAGCTGAGACTACAGGCGAAGCC ACCACACCCAGCTAATTGTTGATATTAGTAGAGATGAGGTTCACCATGTTGGCAGG ATGGTCTCGATCTTGACCTGATCCGCTGCCTCAGCCTCCAAAATGCTGAGATT
228531		TATTTGTAAAGTCAGTAGTAATATCATCCTCCTACTATTTTAGTAATTGAGACTTC AAAAAAATTGTTGTTAGTCTAGCTAAGGTTGTCATTGTTGATTGTTT GAAAGAACCAATTGTTGGGTTGTTGAGTTACTCTATTGCTTTCTATTCTCTTCAATT AATTCCAGTTAATCTTACTACTTGCTTGCCCTGCTGTTGGGTTAGTTGCTCT TCTTTTACTATGTGTTAGGTGAAAGATTAGGTTATTGATTGAAATTGTTTATT [A, G] TTTATTGTTGAGATAGAGTCTCACTCTGTCACCAGGCTGGAGTGCAGTGGCTCA CTGCAACCTCTGCTCTCAGGTTCACGCCATTCTCCTGCCTCAGCCTCCCAGTAGCTGA GACTACAGGCGAAGCCACCACCCAGCTAATTGTTGATATTAGTAGAGATGAGGTT TCACCATGTTGCCAGGATGGTCTCGATCTCTTGACCTGATCCGCTGCCTCAGCCT CCAAAATGCTGAGATTACAGGCATGAGCCACTGTGCCTGGCTGTTCTTTAATGT
228665		TTGGTTGAGTTACTCTATTGCTTTCTATTCTCTTCAATTAACTTCAGTTAA TCTTACTACTTGCTTGCCCTGCTGTTGGGTTAGTTGCTCTCTTTACTATGT GTTATGGTGAAGGATTAGGTTATTGATTGAAATTGTTTATTGTTATTGTTT TTGAGATAGAGTCTCACTCTGTCACCAGGCTGGAGTGCAGTGGCTCACTGCAACCTCTG CTCTCAGGTTCACGCCATTCTCCTGCCTCAGCCTCCCAGTAGCTGAGACTACAGGCGCA [A, C] GCCACACACCCAGCTAATTGTTGATATTAGTAGAGATGAGGTTCACCATGTTGCC AGGATGGTCTGATCTTGACCTGTTGATCCGCTGCCTCAGCCTCCCAAAATGCTGAG ATTACAGGCATGAGCCACTGTGCCTGCCGTTCTTTAAATGTAAGCATTAGCT ACAAGTTCTCTAAGCACTCTTACTACATCTCATAGTTGTTACGTTGTCCT TATTTCATTCATATCAAAGTGATTTCTCTTGTAATTCTTATTGACCCATTGGTTA
230490		TTGATATCATTCTTACTCCAATACAGTTGCACCCACCTACATCCTTGCTATT TTTCAAGTATGTTATTCTGTTAGGACAATTGACAGTTAAACATATT ATTTTATACAATTGCTTTAAATCAGCTAACAGAAAAGGAGAATAATGTATATT CTGCTGCTATAATTACATAGTTATCTTGCCAGTGCCTTTTTGGTAGATGTG ATTACCATCTGGGTCACTGCTTCAGCCTAAAGCTCTTCACCTTGCTAGAGTG [A, G] GTATGTAGCAATGAATTATCTGTTTGTATCTGAGAATGTCCTATTGCTCGT TTTGAAAAGTGGTTGTTGGATATACGATTCTGTTACAGTTGTTTAGCAC ATTGAATATGTCATTCACTGTCGCTGGCTTCTTAGCTCTGACAAAAGTCAGCTGT TAATCATATTGAAGTCTTGTACACAGAGTAAAAAAATTGTTGCTGTTCAAAT TTTCTCTTGCTTTGTTCTATATTAGTAGAGTCACCTGGATCTGTGTATA
230976		ATATTGAAGTCTTGTACACGAGTAAAAAAAAATTGTTGCTGTTCAAATTTC TCTTGTCTTGTGTTCTATATTAGTAGAGTCACCTGGATCTGTGTATACTTC CTGAAGATTGTAATTCTGATGACTGATTAATTGTTAATCAAATTAGGAAGT TTTAGCCATTAACTCTCAAATAATTCTGTTCTTCTCTTTCTGGTGCT TCTACTGCACATATGGGGTGTGCTTAATGGTGTACACATTCTGAGGCTTGTCA [T, -] TTTTTTTTGGTCATTCTCCCTAGTAAACTAGCTGCTACAGTCAGCTGTT GCTCTCATGGAGCTACCAGCCTCCTTAATTACTACCAACAAATGTTCATTGTTA AGAGTACTTTAGGCTCAAACCTCTCATACTCTGTTCAAATTCTCTCAGTCAGAGCT

0000000000000000

	CTCCATTAAATGCCCTGTCGCCCATGGCAAAATCTCAAGCCACTGCTCAGAGT TTGGTGTGGCATAATGCCAGTCTCTAGAATGACAACCTAGTTGTAATTCTAGCC
236111	TCCCCGCTGGAGGCTCAGTCGACCATAAAATGCCACATTGATATGCAGATTCCCTGA ACTCTCCAGAGAGGAGCTGGCTACCCAAGGGAAACAAAGGCTGTTCAGAATGTGCTGG ATCCATTCCCCATAAGTGTAACTAAACACAAACAGCTCTTTCATCGGGCTG GTTTATGGCTCCACTCCAAGTGTGTTGGAATTGTGGTTGCTCATGGCTTTA CTACCTTAAAGTCTTGAGAAGCCTGTTGGCTGGCTCTGACTCCAGGGCT [T, C] GTTGTGAAAGGCCTGGAAGGTTGGCAGTAGGAGCCTGGCCATGACCCAGTCCTAAT ACCAAGGTAACACTGAGCTCAGTTATGTGTTCTCCTGGTGTACGTGCTTAGGGGG ATTCTGACACACAGGTGACCTCCAGGGGAAAGACTAGGATCACACACAGTCTAAAAC TTTATTCCACAGGACAATAAATTAAAAAATAGATAGATAGATAGATAGATACAT ACATACATACATACATAGATACATAGATACATAGATACATAGATAATTCCCTGCC
236317	GCTTGGAAATTGTGGTTGCTCTATTGGCTTTACTACCTTAAAGTCCCTTGAGAA GCCTGTTGGCTGGCTTCTGACTCCAGGGCTTGTGGAAAGGCTGGAAAGGTTGG CGACTAGGAGCCTTGGGCCATGACCCAGTCCTAATACCAAGGTAACACTGAGCTCAGTT ATGTGTTCTCCTTGGTGTACGTGCTTAGGGGATTCTGACACACAGGTGACCTCCAG GGGGCAAAGACTAGGATCACACACAGTCTAAAACCTTATTCCACAGGACAATAAATT [A, -] AAAAATAGATAGATAGATAGATAGATACATACATACATACATAGATACATAG ATACATAGATACATAGATAGATAATTCCCCTGCCAGTCCTCAAATCTCAGCATGAAGCAT TATCTCCCTGGCGGGAGAACATGAAAAGTCTCAAAGCTGATGGCCCTTACCTGGA AGTTTGATGAGGTGTGTTGGCAGCCCCAGCAGGAGATGTTGGCCTGTGGTGGGTGA CAGGGAGGCCAATTCAAATGCCCTGCTTGTACGTGATGGATTCAATTCTCTC
236323	AATTGTGGTTGCTCTATTGGCTTTACTACCTTAAAGTCCCTTGAGAAGCCTGT TGGCTGGCTTCTGACTCCAGGGCTTGTGGAAAGGCTGGAAAGGTTGGCAGTA GGAGCCTTGGGCCATGACCCAGTCCTAATACCAAGGTAACACTGAGCTCAGTTATGTGT TCTCTCTTGGTGTACGTGCTTAGGGGATTCTGACACACAGGTGACCTCCAGGGGGCA AAGACTAGGATCACACACAGTCTAAAACCTTATTCCACAGGACAATAAATTAAAAA [T, -] AGATAGATAGATAGATAGATACATACATACATACATAGATACATAGATACAT AGATACATAGATAGATAATTCCCCTGCCAGTCCTCAAATCTCAGCATGAAGCATTATCTC CCTGGCGGGAGAACATGAAAAGTCTCAAAGCTGATGGCCCTTACCTGGAAGTTG ATGAGGTGTGTTGGCAGCCCCAGCAGGAGATGTTGGCCTGTGGTGGGTGACAGGGGA GGCCAATTCAAATGCCCTGCTTGTACGTGATGGATTCAATTCTCTCCTGGAAAG
236325	TTGTGGTTGCTCTATTGGCTTTACTACCTTAAAGTCCCTTGAGAAGCCTGTTG GCTGGCTTCTGACTCCAGGGCTTGTGGAAAGGCTGGAAAGGTTGGCAGTAGG AGCCTTGGGCCATGACCCAGTCCTAATACCAAGGTAACACTGAGCTCAGTTATGTGTT TCTCTCTTGGTGTACGTGCTTAGGGGATTCTGACACACAGGTGACCTCCAGGGGGCAA GACTAGGATCACACACAGTCTAAAACCTTATTCCACAGGACAATAAATTAAAAAATA [G, -] ATAGATAGATAGATAGATAGATACATACATACATACATAGATACATAGATACATAG ATACATAGATAGATAATTCCCCTGCCAGTCCTCAAATCTCAGCATGAAGCATTATCTCC TGGCGGGAGAACATGAAAAGTCTCAAAGCTGATGGCCCTTACCTGGAAGTTGAT GAGGTGTGTTGGCAGCCCCAGCAGGAGATGTTGGCCTGTGGTGGGTGACAGGGAGG CCAATTCAAATGCCCTGCTTGTACGTGATGGATTCAATTCTCTCCTGGAAAGCA
236345	TTTTTACTACCTTAAAGTCCCTTGAGAAGCCTGTTGGCTGGCTCTGACTCC AGGGCTTGTGGAAAGGCCCTGGAGGGTGGCAGTAGGAGCCTGGCCATGACCCAG TCCTAATACCAAGGTAACACTGAGCTCAGTTATGTGTTCTCCTTGGTGTACGTGCT TAGGGGATTCTGACACACAGGTGACCTCCAGGGGGCAAAGACTAGGATCACACACAGTC AAAAAACTTATTCCACAGGACAATAAATTAAAAAATAGATAGATAGATAGATA [G, C] ATACATACATACATACATACATAGATACATAGATACATAGATACATAGATAATTCC CCTGCCAGTCCTCAAATCTCAGCATGAAGCATTATCTCCCTGGCGGGAGAACATGAAA CTGTCTCCAAAGCTGATGGCCCTTACCTGGAAGTTGATGAGGTGTGTTGGCAGCCCC AGCAGGCAGATGTTGGCCTGTGGTGGGTGACAGGGAGGCCAATTCAAATGCCCTGCT TGTACGTGATGGATTCAATTCTCTCCTGGAAAGCAGTTCCACCATAAAATGGTG

236534	TCTGACACACAGGTGACCTCCAGGGGCAAAGACTAGGATCACACACAGTCTAAAAACTT TATTCCACAGGACAATAAATTTAAAAAATAGATAGATAGATAGATAGATAACATAC ATACATACATACATAGATACATAGATACATAGATAGATAATTCCCTGCCAG TCCTCAAATCTCAGCATGAAGCATTATCTCCCTGGGGAGAACATGAAAATGTCCTC AAAGCTGATGCCCTTACCTGGAAGTGTGAGGAGGAGGAGGAGAACATGAAAATGTCCTC [C, G] ATGTTCGGCCTGGGTGGGTGACAGGGAGGCCAATTCAAATGCCCTGCTTGTCACTGTC CATGGATTCAATCCTCTCCTGGAAGCAGTTCACCATAAAATGGTGAGCCTTCCA ACAGCTGGGCTGCCCTTGCAATGGGCTCCGGTGTGAAGTGGCTCCCGTCCCTGG GAGTGGACAAGCAGCAGCCAGGGCTGGGGAGAGGGAGGAATTCTGCCCGGGAG GCGACGTCTGACGATGAGGAGTCCTCCAGCTAACAGACAGTGTTCATACCTCAGTGT
238076	ATGGGTCTTGAACTCTGGCTTCTTCCTCTCATTCCTGAAACCACCCCTCTG TCTGAGGGCGAGGTGCGCTGAGCCTCTGACTCACTGTCGCTCACACCTGCCCTACCCCTT CTCCCCACTTCCCACAGCACCCCTCATCCCTCATTCCTCTCCAGTGGCGGGACAG GAGTCCAAACCCCAAGACTGCCCAAAGACCATGCTTCAGGACCCATGTCGCCCTCCCCG AGCCTGCTCTCACACAACCTGCGCTAGGAAGGCCAGACACAGGACCTGAGCAGCTG [A, G] CTTGCTGGGAGAACTACTGTCCTGTTCCCTCAGGCCTGGGACCCCTGTCCTACTTTG GGTATCCTCCAGCAGGCTTCCTGCCAGCCATGGCTAATGTTAAAAAAAAAATTAGGAC TCTCCCACAGGGAGAGGCTCTTAAATAGGATCCAGATGCTTCACTTTAGAGGAGGCTG CCTGCAGGAGATAACCAAGTGAGGGCCATCTCAGTCTCAGGCTGCTCCCTGCCACAG CCCAGCCTGCCAACACAGCTGCCATATTCAAGGCACCTGTCATTTCCTCAGCGAACAA [A, G] AGGAGCAATGAGCCCAGGGAGGGGATTAAACAGAGGGACGCCATGCTGCAAATTAGGAA GATACCAAGCTGCCAAATGTAACAACCTGTAATTGCTTTTTGTTTATTAGGAGGCA GATTCTTTAGCCAAGCTCAAATGCCAGATGGCATTAAACTTGGAAAGATAACAGAGA TTAACATTAACAAGAAAAGGACAGACTGGGTAGCTTGGAGGCTGGTGTATTAGCAG GCCATGTTGGGTGTCCTGCCAGAACCTGCACTGGAGACCAAGCCAGCCTTGGAAAGTCC [G, A] TCCCTGAGGCTCTCGTCTATTGGATGGTACCTACATTGGCTCAAGACTGACTTTT CCCAGCATAAGACAAACTGAATCCCTGAAGCACCGTCTGCTGGAAAATCCCTTATGCA GAAAAGCCAGTGGCACTAGGAAAAGTCTGGCTGCCAGCTGATCTTATTAGTGAAC ATAGAATTATTAGAATGGGCTAGATGACAAACACATGTCACAGTGGGGGAGAACAGA GGGGACCAAGTAGACTTGGCTGGAGGGCCAAGTACATGACAGCAAGGCCAACGGG [A, G] AGACTTGCTCTGGCTCAAGGGCTCAGAAAAAGTTAATCTGATGTTCTCTGACTCTGG GTCATTTAACCTATTCTAAATGGTTCTGCTCAGAGCAGAATTTCGAGGTTGTA ACTCCAAGAAGGAAAAAAAGGCTCTACACAATTGTTGTTATTGTAACAGTCTTAT TCTCAAAGATTAAATTCCCAAATTGCTTCTAGGAAATACCGTAAATGCAACACACGG TAAGATGGCAATTAGCTCCCTGCGTTAGGGAGTATCACTCACGGTGATAATTGGGAAAC [A, G] TGACAGAGAATGGACGCCATCTCAGAAGAGACGAAGAGGCTTCAATTACTCTGG ACTTTATTATTATTGGAGGTAATGCAATTGCCCTCTTAACGTGCTGAAATTAAAG TGGACGTTGAAAACATAGCCCTCTATGAGCTTATTGTTACTGAGCATAATTGG ACAATATAAAAAGTTACTTTAAATGTCATCTTGTCTTAAACTGTAATCA CATCAATAGGAACCTTGCTGAGATTATTGCTTAGGTTCTAGGTTCTTCCAGCCT [A, G] GATAGCAGGTGGCCCTGGTCACTGACACACTTGCAGGCTGAGCTGACCAAGACTGG CTAGCATGGCTGGAGTTCTATGCCAGCCAAGCCGACTGGCTCTCTGAGTGGCACC GCACTGACTGTCGCTGCCCTGCCAGACTCAGCTAGAACAGGAGGGCTGAGAACGCTGG GGGCGAGAGGCCCTGGAAGGCCCCAGGTGTTGTGCCCTAGCACACTCTCC GGGGACCTCAGCATGGGTGTCCTGCCAGGCCAAGTCAACTACTTGGCTCATTTAGGGG [T, G] TGTGGGGGTGCTAGGGAGAGAGGCCAGAACAGGAGTAAATCTTAAAGAAATGAGGAGG GAAACCTGGGTCTGCAAGAGCTGCAAGCCAATGAAGCAATGAAAGGGCCCTGAGGTT TGGAAAGCAAATGCCGTTCTACGTTAAGTTACTTGGGAAGAAATTCCATTGCTTAC AAGGGATGATGTCAGTTAACCTTAGCTGAATCAGCCCTCTAAACTGTAACAGA CATTGATAGGCCAACACAACTAGAAATTGGCTCCCTGGCTCCCAATCCCTGCCCTTT [A, G] AGAGGAGCTCTGCCCTGGGGCAGAACAGAGAGGGAGAACAGTGAAGGAAGTGC CTGGAGGAGGAGACAGAGAGGCCAACGGGGAGTCTCCTAGGGCAGGGCAGGGCACGGG GACAGCACAAAGGAGGGGACTGAGACTCTGCCAAAGGATCAAGGTTGCTCTTCA [A, G]
251536	AGAGGAGCTCTGCCCTGGGGCAGAACAGAGAGGGAGAACAGTGAAGGAAGTGC CTGGAGGAGGAGACAGAGAGGCCAACGGGGAGTCTCCTAGGGCAGGGCAGGGCACGGG GACAGCACAAAGGAGGGGACTGAGACTCTGCCAAAGGATCAAGGTTGCTCTTCA [A, G]

		<p>GCCAGCTGAGGTGAATCACACCAAATCTAAACATGCTGTCCTCCTGTCCCACGGTCCA GGGATCTGATCTAGCCACACTGACCAGCAGGCTATAATTGGTCCTGCCCGGGCTGTCC [A, G] GGGCTTGCAGTCCGCCCCAGCTCCACACTGTGCCAATGGACTTCTCAGACTCCAGAG TTACTGCAACCTTAGTTGGGTGCTGGGCCCCACTCTGGCCCTGGACTGTAAAACCAACC TGAAATGGAAAAGTGGGTGGCATGGCCCTTACAGCTCAGCCTCCAGCACAGGCTCTC CTGATGGCAGGGAAGGGCTGTGTATGGCTAGGGCTCGTTGCATGCCAGCAT TGTCCTTAAAGTGCAGGAAGCTGTGAGGGTCCCCTGCCAAAAAGACTGCGTGG</p>
252599		<p>CCCAAATTGTCTGGGCCACAAGCCATGAGCCATGAATGAAGGGCTGATTGGTGA TGACAGTGGTGTCCCCAGGGCTTAGCACACAGTGGCACACAGTATGTGTTGTGATTGA ATCTATGCCAATAAGAATTATTCGTTAGTGTACATAGCTGTCATGAAAAGACTATG TTTTCATGATCAGGACTTCTACAGCACAGCCCCCTTAGGCCCTGGCTGTGGGGAGGTT TGGCAGCAGTTATAACTGCCCTCAGGACCCAGAACGGCCCCCTGGGACCCAGGCC [A, T] GCCTCTGTAAGAGGCCCTGAGCCTCTTCTTAAAGATAAAACACTAGCCATGCGAGG ATTTCCTGAGATGCCCTGGACATCGGTCTCACTAAGAGTCAGACAGTTCTGATCCATCT TCCCATGGGACAGGGCACAGCCATGGGTGTTCAAGGAGTTCTCAGGAGTGTGA AGGGGAGCACGGACAGCACAAAAACAGAATTCTGAGTCTGAAATAAAGGATTAGAAC CCTTCTGGCCATTAAACCTAAATAACTAGAAGATTGTTCTACTTTCTTTAAAC</p>
252647		<p>GCTGATTGGTGTGACAGTGGTGTCCCCAGGGCTTAGCACACAGTGGCACACAGTATGT GTTGTTGTGATTGAATCTATGCCAATAAGAATTATTCGTTAGTGTACATAGCTGTCATG GAAAAGACTATGTTTCATGATCAGGACTTCTTACAGCACAGCCCCCTAGGCCCTGGCT GTGGGGGAGGTTGGCAGCAGTTATAACTGCCCTCAGGACCCAGAACGGCCCCCTGGGA CCCAGGCCCTGTAAGAGGCCCTGAGCCTCTTCTTAAAGATAAAACAC [T, C] AGCCATGCGAGGAATTCTGAGATGCCCTGGACATCGGTCTCACTAAGAGTCAGACAGTT CTCGATCCATCTCCATGGGACAGGGCACAGCCATGGGTGTTCAAGGAGTTTC TCAGGAGTGTGAAGGGGAGCACGGACAGCACAAAAACAGAATTCTGAGTCTGAAATAAA GGATTAGAAACCCCTTCTGGCATTAAACCTAAATAACTAGAAGATTGTTCTACT TTCTTTAAACAAAACAGGATTGTTGTGTTGTTGTTCTTTGTTGTTGTTGTTGTTG</p>
252649		<p>TGATTGGTGTGACAGTGGTGTCCCCAGGGCTTAGCACACAGTGGCACACAGTATGT TTGTGATTGAATCTATGCCAATAAGAATTATTCGTTAGTGTACATAGCTGTCATG AAAGACTATGTTTCATGATCAGGACTTCTTACAGCACAGCCCCCTAGGCCCTGGCTGT GGGGGAGGTTGGCAGCAGTTATAACTGCCCTCAGGACCCAGAACGGCCCCCTGGGACC CAGGCCCTGTAAGAGGCCCTGAGCCTCTTCTTAAAGATAAAACACTA [G, A] CCATGCGAGGATTCTGAGATGCCCTGGACATCGGTCTCACTAAGAGTCAGACAGTTCT CGATCCCATCTCCATGGGACAGGGCACAGCCATGGGTGTTCAAGGAGTTCTC AGGAGTGTGAAGGGGAGCACGGACAGCACAAAAACAGAATTCTGAGTCTGAAATAAAGG ATTAGAAACCCCTTCTGGCATTAAACCTAAATAACTAGAAGATTGTTCTACTTT CTTTAAACAAAACAGGATTGTTGTGTTGTTGTTCTTTGTTGTTGTTGTTGTTG</p>
252783		<p>CATGATCAGGACTTCTACAGCACAGCCCCCTTAGGCCCTGGCTGTGGGGAGGTTGG CAGCAGTTATAACTGCCCTCAGGACCCAGAACGGCCCCCTGGGACCCAGGCCAAC TCTGTAAGAGGCCCTGAGCCTCTTCTTAAAGATAAAACACTAGCCATGCCAGGGATT TCCGTAGATGCTGGACATCGGTCTCACTAAGAGTCAGCACAGTCTCGATCCATCTCC CATGGGACCAAGGGCACAGCCATGGGTGTTCAAGGAGTTCTCAGGAGTGTGAAGG [G, A] GAGCACGGACAGCACAAAAACAGAATTCTGAGTCTGAAATAAAGGATTAGAACCCCT CTTGGCATTAAACCTAAATAACTAGAAGATTGTTCTACTTTCTTTAAACAAA CTAGGCATTGTTGTGTTGTTGTTCTTTGTTGTTGTTGTTGTTGTTGAG ACAGAGTTTCACTGTCGCCAGGCTGGAGTGCAGTGGCACGATCTGACTCACCACAA CCTCCGCCCTCCAGGTTCAAGCAATTCTGTCAGCCTCTGAGTAGCTGGGACTAT</p>
253875		<p>TAGGAGTTCAGCATCAACCACAGCCAGAGACCGCTGCTGACAGCAGGGCTCCTAGACTC AATTAGCAGTAGACAGAGGCCACCATCAGCATGACAGGAGGCCAGCAGGCCAGAGCAGGC CTAGGCCAGGGCAGCACGGCAGTGACATTCTCATCCCACACATGCATGTACATTACTG TCATCACTGGGTGCCATCAGTCTCACTCTGGTGGAAAGATGGTGTCTCCGGGGCTGC AGGTGTGATGTAGGTGACGTGAGATCTGCATGGCACAGCTGTGGCCTTGAATTATAAG [A, G]</p>

		TTGCTCAAGGCCATCAGCTAGAGGACTGGTGTGCCCTAGTTACCAAGTATCTAT GGATTGGTCTCATGGATTCCCTGCCAGTGCCCCGCCCTTGCCCCTCTGAGGCCAC AGGAGGGATGAGTCAAACTCTGTTACAAGGAGCTTACGTGGTCTCATTGAGGAAGTAA AAGGAACACTGCCAGTTACTGCTGGGTGGATTCACTTACTTCAGTGAGACCTGGGC CTGGGCCACCAAGGCTCTCCAGGATGTCCTCTGCATGTCAAAACTCAATGCACACTCAA
254076		TCTCACTCTCTGGTGGAAAGATGGTGTCCCGGGCTGCAGGTGTGATGTAGGTGACGTG AGATCTGCATGGGACAGCTGTGGCCTTGAATTATAAGATTGTCTCAAGGCCATCAGCT AGAGGACTGGTGTGCCCTAGTTACCAAGTATCTATGGATTGGTCTCATGGATTCC CTGCCAGTGCCCCGCCCTTGCCCCTCTGAGGCCACAGGAGGGATGAGTCAAACT CTGTTACAAGGAGCTTACGTGGTCTCATTGAGGAAGTAAAAGGAACGTGCAAGTTACTGC [T, C] GGGTGTGGATTCACTTACTTCCTCAGTGAGACCTGGGCTGGGCCACCAAGGCTCTCCA GGATGTCTCTGCATGTCAAACACTCAACCACGGGGCTGAGCTGGAGG AGCTTCCAGGCCAACCCAGTCACTCCATCCATCTTGAACATTCATGAAACCCCTTT TAGAACAGCTGATCACATTCCATTCAAGCAATAGGGATTGTGCGCTCTGTGAG GCCAAATGGCGTGGCTCATGCGTGTGTCATTCTAGCCCCTTGTCTTTCCACCCCTGG
254547		GAACCCCTTTAGAACCCAGCTGATCACATTCCCATTTCAGCAATAGGGATTGTGCGCTCC TCTGTCGAGGCCAAATGGCCTGGCTCATGCGTGTGTCATTCTAGCCCTGTCTTT TCCACCCGGTAAGGCCCTAACGGCTTCCCACCTGGTCCGTAGCATCATCAACTCCCTGT GCTTTTTTTCTTTGGCGCTATCTCTCCATCCTTATAATAGTCCTGTATAATAGGG GTCAGTTACAGATGCAAAACTAAGGTTCTGGGAGGATAAGTGACCTCTGAGGCCAC [G, A] TAGCAGGAGCAGAATTAAGACGGATGAGCTCCTGACCTGGGCCAGTGCAGAATAGC TGCAGGGCCTGTTTCAAAAGCCCACCCCTGACCTCTGCCCCAGTCTCAGTAACCTG GCCGCTGTCTCAGCAGGGAAAGAGCCAAGCAGGATGAGCACTGCCCGCATGTCCAG AACGCTGTCCAGCAGCCTCAGGGCTCTGCCGCTGCTCAAAGAACTGGCCTGGGAAGT GCCACTGCAACCCAGAGGCCGTGGTGAACAAAGCCCCGAGGCAGCATGCCCTCCCT [A, T]
254892		GCCAGTGCAGAATAGCTGCAGGGCCTGTTTCAAAAGCCCACCCCTGACCTCTGCCCT AGTCTCAGTAACCTGGCCTGCCTGTCCTCAGCAGGGAAAGAGCCAAGCAGGATGAGCACT GCCCGCATGTCAGCAGCTGTCCAGCAGCCTCAGGGCTCTGCCGCTGCTCAAAGAA CTGGCCTCTGGGAAGTGCCACTGCAACCCAGAGGCCGTGGTGAACAAAGCCCCGAGGC AGCATGCCCTCCTGTCAGGGTTGTTATTCAGATGGCAACTGTGTGCGCT [A, T] GTGTACAGTTTTTGTCCTGGCCTATGGCTCTGCTATAACACTGTAGGTGGCAA CTTTTAAGAAAAACTCTAGAAATGGTATCCAATTGTATGACTCTGGTTGTCAC CCCCACCTCACCTAGCTGTCCCTCATTTCTACACATTCCCTCATTTCACTCCTAG TTATTCATCTGAGAAATGGTGGCCACACACTCTCTGCCAAACTCCAGGGGAGGGCA GGAGGAACGCCCTGGGCCTTTGGGGGTGTGGAAGGGACCCCTGCACGCCCTTCAG
258431		GAGGTAGTCACCCCTGAGAGCCTGAGGCTGGAGGGAAAGATCTGCCATGCTGTG CTTCGTCAGCAGGGTTCTCATGGGCTGGACACAGAGGGCAGACTGGGCCCCAGC GGCACAGCAGTGTGGTCCCAGAAGGGTTGTCAGTGCCTTAATAACCATCACT CTGGTAAGTGTATGACACTATCTCCAAGAACAGAAACATATAGTCATCCCAGGG TCTTTACAGTCACATAGCAGCATGACAAACAAAGTCATCCATGGGTCTTACAGTC [G, A] CATGGCAGCCTGACAAACATAAAAGTCATCCTATGGTCCTTACAGTCGATGGCAGCA TGACAAACATAAAAGTCATCCTATGGTCCTTACAGTCGATGGCAGCATGACAAACAA AGTCATCCTATGGTCCTTACAGTCGATGGCAGCCTGACAAACAAAGTCATCCTATGGTCCTTA CAGTCGATGGCAGCATGACAAACATAAAAGTCATCCTATGGACCTTACAGTCACATG
261462		ACCCAGGAGGAGGAGGTTGCAAGTGAGCTGAGATCACACCACTGCACTCCAGCCTGGGCAA CAGAGACTCTGTATCAAAAAGTAAAAAAGATTAGAAGTCAGAGGATTGGTG GGGTCACTGTACGCTGCCAGGGAGCATACTAAACTGAGCCTGCTGTGACACACCTC CCGACAGAGGGAGTTCACACGCAGCCCTCCCAGGGGAAGAGACAGAGACCTACACAGCCA CAGGCAATGCACACCGGTGTCACTGCGCTGACTGATCAACCATCATGCACAATGCAGC [G, A] GACAAACGGGATCGTGAGACATTGAGAAAGCCAAGAGCACAAGGGAGAACCAAC AGGAAGGAAAAGAGCAACTGGCTGTGGGGATAGGAAACAAAGAAAATTAAATT TTAAATCTAATAAAAAACCTTAGAGGGACTTGATAAAACATTCCATAAAATAAGA

	ACAGGTTGTTATGAGAAAGGAAAATAGCCAAGAAGTATTCTGGAAATTAAAAATGCA GTCACCAACATAAACCTCCATAGAAGGAGCGAGAATAAGTCAGGAAGTATCCCAC
262167	AACAAAGAAACTTAAGAGCAGGAAATTACCAAAGGAATAACAGAAGAAAACCCCCAGAG CTGAGCTAACGATATAGACCTTCAAAAAGAATGACCCACTGAGACAGAAGCAGGGGGGAAT GAAAAAAAGACCCACAGTTGTATAGTGTGCTATCCTCTTGATATTTCAGAACATTAGGAT AAAGAGAAGATTCTCAAAGCTCCAGAGGTAAAAGACAAGTTATCAACAAAGGATCAGGA ATCATTGTTGCAGATTGCATTAGCAACACTGGAAGGCAGTGAGGTAATTGCTTCACA [G, T] TTCTTTATTTTATTTTATTATTATTACTTTAAGTTCTGGGATACGTGTGCAG AACGTGCAGGTTGTTACATACGTGTACATGTGCCATGGTGGTTGCTGCACCCATCAAC CCATCATCTAGGTTTAAGCCGGCGTGCATTAGGTATTGTTAATGCTCTCCCTCCC CTTGCCCCCAACCCCTGACAGGCGCAGTGTGTGATATTCCCTCCCTATCCATGTG TTCCCATTGTTCAACTCCCACCTATGAGTAAGAACATGTGGTTGGTTCTGCTCCT
263806	CTACTTGGGAGGCTGAGGCAGGAGAATGGCGTAACCCGGGAGGGAGCTGCACTGAG TGGAGATCGTCCACTGCACCTCCAGCCTGGGAGACAGAGCGAGACTCCGTC AAAAAAAAAAAGTGGGGCATGGAGGGTAGGTGTAATCCAGCAAGACAGAAAAGGAA CCTAGAAAAGAAGAGCTGGTCCAAGAACAGAACAGCTAACCCAGGTATCCAGTGAA CAAACCCCGCAGGACTTGTGGGACAACACTGTGTAAGAACCTGGGAGAGAACATTCA [A, C] GTTAGAACAGAAAGTCAGAAGGTTCTGAAAAGCAAGTCTTCAGAACAGAAAGTTAATTCCA TTGAACAAAAATAAGATGAAGAAACTGGAAGACCTCAGAGATATGATGAAGAACACGTAT GTGCTATCCCTCAATAAAATTGTTAAGCAGTAAAAATTCTGGAGAAGGCAAATTGCTA AACCAGAAAGACATCATAAAATATTAAGCAAACATAATGTCACGATTTGAGCAATT AAAGGAAGATGAAGAACAGAACATTAACTATGAAGCTAAAATAATCTCCTCAAAC
265167	GAATTAGGACTTGCAGAGTAAACAGAACCCAGTAGATGGAACTGCACCCCTGATAAAA TGTCTCTTACTGCCTGAAATACAACCAACATCACCAACACCACAGCCCCGGCTATAAAA AACTTTTTTCAATTATAAGGTCAAGACTCTTCTTCAGACTGCCTGCTAACGAGTTGACCAA AACGTGTTCTGATATGTGTGGTTTGGAGACACTAACGTTCTGATTCCACGTTCTGATGAAGCTGCC [A, G] AGTTGCTCAGGTGTTCCCAGGAACAGAGAGGTGGCGTGGGCCAGCCTCCCAGGGAGCCC AGATGCTGGCTGCAGGCTGTCCACACCCGTGCTGAGTGTCCAGCCCAGCCAAGGTATG TCTGCTTCTGTTGGCACCGCTAGTGGCTAAGGAGACATTACATCAGAGCTAGCGT CAACCCCTCCCTGTCCTCCTCACAGAGGACTCAGAACATTCTCTTCTCCAGAGTTG CTAAGGAAATCCGACCTGCTTACCTCTGCTAAGTAAAGTTCCAGGA
265258	TCACCAAACACAGCCCCCGCTATAAAAACTTTTCAATTATAAGTCAGAGTCTT CTTCAACTGCCTAAGCAGTTGACAAAACGTGTTCTGATATGTGTGGTTTGGAA AGACCTAACGTTCTCAAGCCCCAGGGTCAAGGAGATGCCGCACTGTTGAAAGTCCT CTGTTCTCAGCTGTATGACTGCCAAGTGTGCTCAGGTGTTCCAGGAACAGAGAG GTGCCGTGGCCAGCCTCCAGGGAGCCCAGATGCTGGCTGCAGGCTGTCTCCACACCC [G, A] TGCTGAGTGTCCAGCCCAGCCAAGGTATGTCTGTTCTGTTGGCACCGCTAGTGGCCCT AAGGAGACATTTCACATCAGAGCTAGCGTCAACCCCTCTGCTCCTCCTCACAGAGGAC TCAGAACTTCTCTTCTCCAGAGTGTCTAACGGAATCCGACCCCTGCTTACCTCTT GCTAACTGAAATAAAAAGTTTCCAGGACAAGTGGCTGAGCCCTGTGATGATGCACA ATAATACCCGTGCGACAAGAGCATCCTCATCTGATGGGCCAGGGTGGTCCCTG
267127	CACATAGCTTATAAGTGGCACATTCAAGGTTGACACCTAGGGTTCTAAAGGAAGAATT CTTCAGGTGGCCTGGCAGGACATATGGGATATGGAGAACAGAGAGCGGGGGCTGGAG AGAATGGCAAGAGAGGTGACAGGCCCTGGAGTTAGAACAGAGGGTGTGGTAGGTGGCTG TGCTCCCTGGAAAAGAGCACCAGACAGAGAGGGGAAGGGTCTGTGAGAGGTCT CCACCGGCTGTCCTCATCCTCTGCTGCTTCTCACATGCACTCACACAGGGCTTG [T, C] GGGAATTCTAGGACCACGTCAAGGAAATGCCAGGAGAACCGTGTCTGGGTATGA GAGCCAGCCGCTGAGCCAACTCACGTCCTGTGGGAAGCCACCTCATGGTAGGGAGTC CCTTGACCTTGTCTGAGACCTTAACAGTTAATGTCATGTGTTGAATTCTGCACATA TTTTTATGTTGAATTCTGCACACGTTTTTTACTTCCCTAACGTTAAAGTAAAAAA AAAAAAAAAAATGTGAGCAGGAACATCAAACATATTCACTGTTAACTAGTAAAGTTAATGT

268343	TTATTAGTGGGTGTGCAGAGAATGGTTATAATGGTATTACAACATTTGAAGTGGCT GCCCTGAAGCAGGACAATTATGTTCCATTACAGTCACCTTATGAGCACCCACACACA CAGTTCTGCCAGGAGGGACATCTACCCCTGGATCCTGTGACTCCCTGGGATCAAACCCC TGGAGGTTCTCTGGAGAGAGATTGACCCCCAGAACCTTCCACACACCCCACTCACC CCATGCCTCAGAGGGATGAAATCTGACCACTAAAATTCAAAGAGTATTCTGCCATC [C, T] GGGGTGCTCCTCCCTGGAGCCAGGCCAGGCAAGGTGCCATTCTGGCCTTGACTCCTAT AGCAATTACAGGACAGAGGTTATCAGCCCCATTGACAGATGAGGAATGAGGCCAGGG AGAGAACGCCCTGGCTTCCAGCAAGCAAGCAAGTGGGTGCTGCTCTGAGACTCCC CATGCCTGGAACACGAGTGGGGAAACAGCACCCACGCCCTCCGGCTATCCTGTG AGCACTCATGCAGGGAAATAAGAGCAAAGAGAGAACTGGGAGGATTCTCAAACACAGT
268640	ATCCGGGTGCTCCTCCCTGGAGCCAGGCCAGGCAAGGTGCCATTCTGGCCTTGACTC CTATAGCAATTACAGGACAGAGGTTATCAGCCCCATTGACAGATGAGGAATGAGGCC AGGGAGAGAACGCCCTGGCTTCCAGCAAGCAAGCAAGTGGGTGCTGCTCTGAGAC TCCCCATGCCTGGAACACGAGTGTGGGGAAACAGCACCCACGCCCTCCGGCTATCC TGTGAGCACTCATGCAGGGAAATAAGAGCAAAGAGAGAACTGGGAGGATTCTCAAACCA [C, T] AGTGAATCCAATCCCCATACTTTTACACTGAGTGGAGCTCCCTCCCCATCTCTGAAG AGGAGAACAGACCCAGGTCACTCAAGCCTGGCTCTAGCCAGGGCAGAGCTCAGCTAG AGCACCTCGCACTGGATTATTGTCTGGTTCTCTGCTCTCACCTAGGCAAAGG GGTGGATTTCAGTGGAGGAAAGTCCAGAGGAAGCAAAAGGGAAAGCCTGTGAGCATGG AGTATTCTGTTAGTTACCAAGGGCTGCTCTATGGCAGCCTGGACTCAGGGTCAAAG
269021	ATCAAGCCTGGTCTAGCCAGGGGAGAGCTCTCAGCTAGAGCACCTCGCACTTGGATT ATTGTCATGGTTCTCTCTGCTCTCACCTAGGCAAGGGGTTGGATTTCAGTGGAGGA AAGTCCAGAGGAAGCAAAAGGGAAAGCCTGTGAGCATGGAGTATTCTGTTAGT CAAGGGCTGTCTATGGCAGCCTGGACTCAGGGTCAAAGGAAACTTAGAGGCCATGCAT GTCTCAGTAGAACACTCTGGACAAAGCCATGTGTCGTTCTTGTATCTGGCACA [T, G] GTTTGTGAGTGTAGTTGATGCCAGGACCCCCATTGGCTCATGTCGATGGTGGGAGGG ACATGTGACAAGTAGAGGAAGCAGAGATGATCGATGTTCTGAGGGGGTGTCCAGGGCTC TCAGAATACACAGGAGACTGAACCCAGCCAGGAGTGGTCAGGATAGTGACATGCAGGAA GCCACGTGCCAGCTAACGACCAAGGCCCTCCACCCCTCCCTGAGAGCAGGCTGTG CCCAGTTGCCAGAGGTGCTCTATTCTGCTCCATTAGGGTTGCACTACCATGATAGG
269429	GTTGCCAGGGCTCTCAGAATACACAGGAGACTGAACCCAGCCAGGAGTGGTCAGGATAGT GACATGCAGGAAAGCCACGTGCCAGCTAACGACCAAAGCCCTCCACCCCTCCCTG GAGCAGGCCTGTGCCAGTTGCCAGAGGTGCTCTATTCTGCTCCATTAGGGTTGCA CTACCATGATAGGCAAAGCAGTCATCATCCATCACTGACCCAGTGTGAGCAGATG CTGCAAGCCAGCCCTCTGCACAGCCCCACCGATCTGAAGAGGCTTGGAAAGGGGGGG [C, A] AAGATTCTAGCTGTGGTGTAGCCCCAAGGTGATGGTAGGCATGTTAAGGAACGTGAG GTGGCGCAGGGTGTGCCAGAACGGGTGTGAGTGGGAAGGATGAGGCTGGAGACATAAC AGGGCAAGTCAGGGAGGGCGCTGCCCTGCTCCAGCCGAAGGCAGTGGAGCCCCATAAA GATTCTCCAGCTACTGAGTGGGGAGGGATTGGTGGGACATGATCGGAGGCATAGTGGT CATCCGGGGGTGTTAATGGCTTCTGAACACTACAGCAGAGGTGGTAGGAGTGGTAGGAAAC
269739	GCTGTGGTGTAGCCCCAAGGTGATGGTAGGCATGTTAAGGAACGTGAGGTGGCGCAG GGTCGCCAGAACGGGTGTGAGTGGGAAGGATGAGGCTGGAGACATAACAGGGCAAGT CAGGGAGGGCGCTGCCCTGCTCCAGCCGAAGGCAGTGGAGCCCCATAAGATTCTCC AGCTACTGAGTGGGGAGGGATTGGTGGGACATGATCGGAGGCATAGTGGTCATCCGGGG GTGTTAATGGCTTCTGAACACTACAGCAGAGGTGGTAGGAGTGGTAGGAAACTGGCACCC [A, G] AGAGACACAGTGGTAGAAATGACCTGAGCCAGGACTGATTGGCTGGGATGGCAAGATG GTGAGGTACTGCCAGGTGTGCGATTGGAAAGCAGGGCTGGGTGGAGGGTTGCG CTGAGGCTGGGATGTGAAAGAAGGAGCAGTCTGATGGTAGTCCATTGGGCCATGTT GAGTTGAGGGGCTGTGGGACAATGTGGGAAATGTCAGGCCAACAGTGGGGTGGGACAT CAGGAGCTCAAGAGAGGATAGTGGATACTGGCTGGATAGTGAGTAGACACCGCTCCAAG
271247	CAAATGTAATTATTGCTGGTATTCCCATTGGCAGCCCAGCTTCAAGCCAGCCAACCTCC CTCATTTTATTTACTTTAGTCCCACACTATTCTGATGCCATTAGCTCTAGGAAG TCATTTAAAGCTATAATCACGGCGTTGCTCAGGTGGATGCAATCCAGATAATGGAC

		CCAGATCCACTCCTCGAAGAAGCCTGGGCTCCAATTAGCGCTAATGCACCCCAATTAA ACAAGCAGAGCCAGTCCCCGTGAGTTCTACCTCATCTGCATTAAAAACTAGGGAAA [G, -] TGTGGGCAAGAGTCGTTGCAGAGGACGCTAACAGCCCCTCCTAGTTGAAAATGTA CCTTGGCCTTGATTTGGTCACAGGTCAAGAAGCCCCCACCTAGAATGCAATCATGA TGTCCCTCAATGGTTGCCATCATCCTGGTCACGCTGTGAGTAAGCTGCCA CCACAGCCCCATGCTGGTCAAGGGCAGGGTGGGCTCTGGCCTTACCGGAGAGGACG ATATCCCAAATCAGCACTGTGGCCTGCAGCCGCATCCCGAACACAGGCCTGTGCC
272820		CTGGGATCTAGAGTTACAGTAAGTCCGGTAGTAATTACATGCTCATGAATTACAGAG CAGGTAAGCTATGGTTGCCATCTGCAAGCCAGATAATTGGAATGGTTATAAATA TCTCCCACTGTCAGTAGAGGTCCCTGCTCCCTCAATGCAAAACCACATAGCTGGGAT CCATTAGTTCACTCCAAATAATTAAAGAACGACCCCTCATGGGTGTGGTGGGTATAATAAT TCAGAAGGCAAAACTCTTCTGTCCCAGGATCCCAGTGTGGTGCATCAGGCCATCT [T, G] CTTGGTGGGCATCACACTGCATGCTGGAGGAAGAACAGCTTATAGGGCAGTTAATGTT GAAAGTCAGTCAGAATTGGACTCTGATTGCCACCCCCCAAGAAAGGGGAGGGAG AGCTGTTAGGGAAAGGCTTCTAGAAAAAAAAGAAATTGAAGCTGCTCCCAGGGACAG TTTAGGGGTTGATAGGGGACATTCAGGTAGAGGAGCCAACCATGCAAGGCCTGGAGG GAGGGAGGCTGGCCTGTCCGGGGTGGCTGCTGCCAGTCAGGCATGACTGGACCATG
274065		TTGAAGGGATGCCAGCCCAGGATGGCAGAGTCAGGGACCAGATGAGCTGCCGCCACT TCCATATCAGTGCACCTCTCTGTGAGCCCGCACCTCCCACCCCTCCCCATGTACCT AGGCTGGCTGGCTGAGGACAAATACTGTCACACTCAAAGCACTGCTGCTTTCAGAC ATATTGAGAAACATCAGGTTACCTTTAAATAACATATCATTGAAGCATAACACAGA GAGAAAATGAATAAGTCATAAGTGTAGCTCAGTGAACCTCACAGAGAACATATCTGC [G, A] TAACCAGCACCCAGATCAAAAGACAGAACGAAATCTTACCAAGTGCCAGACGCCACCCACCAT GCTCTATTCCAGTGTGACCCACCCAAAGCATACCCACTACTCAGGTGGCTTGAAGAG GAGAGGGCATGACTGTGACAAAGCAGAAGGGTGGCTAACACCAGCACTGCCACTAGAGG GGTGCCCAGGTAGAGGGAAACAGGGAAAGAGAGCAGAGGCCATGAGGTAAAGAAAAGCTT CATGTGAGTGTGGAAGAGAACGACCCAGTGAGCGTGGCAGGACCCCTGCCAAGTGTGACT
276592		AGCAGGCTGGAGTCATTGCGCAGTGTGAGTCTAGTGAGAGGCCAGCACATGCCAAAT CCCACAGGCTGCTGCTTCGCTCCTTCCGGTGTTCAGGGAGTGAGCAGTGCAGATGC ATTATGGCTGAGATGTGTCGGAATCAAACCTCCATCGTGGAAAGAGGAGGGCTTCTGAG CGCTCGGAGGACCCACACCTGGTTGCTGTTATCCCCACTGCCAACCCCTCCCTGGCAG CCCCGGCTCTCACACTGCCAGGCCCTGCATTCTGGATGTGAGCTGAGACCACAGCCTGC [G, T] CATCAGCTCAGAAGCTTCAGGTTGAAAAACCCACACGTTCCGCTGGCACCGACTTAC AGAAATGAGGGTTCTGCAGCTCCCTCACGGGCTGCCACATTGATAAGTTCCCGT GTAGATAATCCTCAGAACAGCAGTGCAGGTGACGGGAAGGAGAGCCTCTCACTCTCC CCCAGAGGCTCAAGCCCTGAAATACTCCAAAGATCTCCGAAATGGCTGGTGTGCTT TCAGAGTTGTGGAGTTTGTGTTTACTGACCAAGGGATTACTGTCATCGTCAAGTCC
276628		TGAGAGCCAGCACATGCCAAATCCCATCAGGCTGCTTCTGCTCCCTCCGGTGT TCAGGGAGTGGCAGTGCAGATGCATTATGGCTGAGATGTGTCGGAATCAAACCTCCATC GCTGGAAAGAGGAGGGCTTCTGAGGGCTCGGAGGACCCACACCTGGTTGCTTATCC CCACTGCCAACCCCTCCCTGGCAGCCCGCTCTCACACTGCCAGGCCCTGCATTCTGG ATGTGAGCTGAGACCACAGCCTGCGCATCAGCTCAGAAGCTCAGGTTGAAAACCCACA [C, T] GTTCCGCCTGGCACCGACTTACAGAAATGAGGGTTCTGCAGCTCCCTCACGGGCTG CCCACATTGATAAGTTCCCGTGTAGATAATCCTCAGAACACAGCAGTGCAGTGACGGG GAAGGAGAGCCCTCTCACTCTCTCCAGAGGCTCAAGCCCTGGAAATACTCCAAGATC TCCCGAAATGGCTGGTGTGCTTCTGAGGTTGAGTTGTTTATTTGACCAAGGG ATTACTGTCATCGTCAAGTCCGAGAGGTTAAGATAAAATCTCAAACCTCAGGAATT
279257		GCGAATATAAGAAGGCAGAAAATGTGAAAAGGAGAGACGGGCTGGCCTCCAGCCTA CATCTTTTCCCAGGCTGGTGTGCTTCTGCCCTCGAGCATCAGACTCCAAGTTCTCAGT TCTGGGACTCGGACTGGCTCTCCCTGCTCAGCTTGCAGACAGTCTATTGTGGGACCT TGTGAGAGCTGCAAACAGAACCTGTTACAGGTGTGAGTTAAGTAATACTTAATAAAATA TATATATATCTCTCTCTCTTGTGAGTTCTGCCCTCTAAGAGAACCCGACTAATACA [C, A]

DRAFT - NOT FOR CITATION

	CAGGCCAGCAGAAGTTTGTGCAGGATGGTACCGTGAAGGTAGGATCGCTAGGACCC TGGCCCCACCCATTAAGTGCTACCAAGGCCCTCCAATCATTGTGACAACCAAAACATCC CCACAAAATTCCAAAACGCCCTTGGGACAGCACTGCCCTGTTGAGACGGTTATAGA GACTCCTTGCATGTGCATGAGTCATGTGGAGCTAAGTGCTCCCTTGCCGTACCCAT CAGCCTCAGTCTGGAGCCAGTAACCCATCTTGATCACTCGGGAGGAAGCGACAGCCT
279925	GCTCAAGCTCAAAGCAGCTACATTCTGGACATCACTGACGCCATTGCCCTGCTGACGCT GAGCAAAGTTACTGCCAGCTCCACAGCCGGCTTCCCCTTAGTTAGATGTTGGGAGG ATGCAGCCTCCAAGGAAGTCTTGGAAACAAAAATTAAATAAAATTAAACAGGAGGTGGAGA AGGCACCCACACTCCCATATCCCCTCCACTTCCCTGCCGTGGTACTGACCTCTAGTCCA GCACTACTGCTTCTGCTCTTGGGCTGGTACAGGGAGAGTGGGAGGAGGGCTGAGCTGC [T, C] GGACAGGGCAAAGGGGGAGCCGGAGTPCATAGAAGCTGTTGCCACCTTCCACAAGGAA TGCTGACCTGTTAGGAATCTAGCTGGGAGGTTTCCACTAACACAATAGTAAAAAAT AAAGTTCTTAATACCAGGAGAGCTTAGCATTATTCATGTTTCATACAGTGCTTTTC ACTCTGGGCCACCTGACAGATCTGCCAGTCAACCATAAAAAGTATATGTGGATCCCT CCCAGGGATCCAACCAATTTCCTCTAATAGGAATAAAAGAGAGGATTGTAATGT [T, A]
280127	CCTCCGACTTCCCTGCCCTGGTACTGACCTCTAGTCCAGCACTACTGCTTCTGCTCTTGG GGCTGGTACAGGGAGAGTGGGAGGAGGCTGAGCTGCTGGACAGGGCAAAGGGGGAGCC GGAGTTCTAAAGAAGCTGTTGCCACCTTCCACAAGGAATGCTGACCTGTTAGGAATCT AGCTGGTGGAGGTTTCCACTAACACAATAGTAAAAAATAAAGTTCTTAATACCAGGAGA GCTTACGATTATTCTATGTTTCATACAGTGCTTTCACTCTGGGCCACCTGACAGA [T, A] CTGCCAGTCACCATAAAAAGTATATGTGGATCCCTCTCCAGGGATCCAACCAATTTC CTTCTCTAAATAGGAATAAAAGAGAGGATTGTAATGTCAAGACAGCAGATTGTATAGCAA CATCAATTGAACCAGGCATTCTAAAGCAAATGTACCAATTCTAACAAAGGTCTGGT GTTTGTAAATTAAATGACCTGATGCTGGGTGCAAATTGAGATGAGGCATTGCTGCG TATTCAAGGTGCAAGTGGAGGTGGATATTGCCACCAGCCTGGAGTCGGCTGGATCTGCTC
280433	AGTCAACCATAAAAAGTATATGTGGATCCCTCTCCAGGGATCCAACCAATTTCCT TCTAAATAGGAATAAAAGAGAGGATTGTAATGTCAAGACAGCAGATTGTATAGCAACATCA ATTGAACCAGGCATTCTAAAGCAAATGTACCAATTCTAACAAAGGTCTGGGTGGTT GTTAATTAAATGACCTGATGCTGGGTGCAAATTGAGATGAGGCATTGCTGCGTATT AGGTGCAAGTGGAGGTGGATATTGCCACCAGCCTGGAGTCGGCTGGATCTGCTCCAGTG [C, A] AGCACAGCCGGGAACCAGGCAGAAGGTCTGCATGCCCTCGTGTGTTAACCTGGGT AAAAGGCCATGTCAGCCTACACATGCAGATTCTGTTGTTCCAAAGTGAGCCTTG TACCTCAACCTAGAAAATTCAAATTAGCTGAGATGACAATATGGACACTCCAGGGAA AAGACCAGATGAAACTGACCGAGAATAGTTGGCAGCCTGATGCAAGGCCCTTTGA ATCCCTGGGAGGATGAGGGCTAAATCTAAGAGGTGTAACCACCTGATTTCCCTCAGCCA
282808	GAGCTGGGAGTAAAATCCTGTTCTTGCAGCTTAGCAGTTCAAAATAGACCTC AGAATGACACATCACAACGACTGAGGCCCTGTAACGCAGCCGACTGAGCTATAACATGG GTGCCAGACAATTAAAGCCAGGTTTGTGTTGGTGAAGATGCAAGCTTGTGGGG AGCACATGACATGACTTACCAAGGCTAATGGGAAAGTGTGGGAACAGTGTGCTAATGT CTGGGGGACAGGCCAGCAAGAGGATGGGGCATGTCCTGTCTCCCTGGCCTCTGT [G, -] GGGGTTCTCAGGTGAGGTTGGGATCTGAGCTCTAGCCACCTGCCAGGTTGAAGAGGG GCTGGAGGCCAGTGAATGCAAGCTCCAGAGAGTGGCTGGTTACTATGTGGTTCTGCAAGGG ATGCCCTGTGTTGGGAAGAGAGATCCTCACCCATTGTTGGCATTGAGCAG ACCCACCATCCCCACCCAGGCAAGTCTTCTTCCATGCCCTGGCCTCTAGGTCCACG CCCCCTCCCCAAAGGGATTGCTCCAGCAGTGGCAGCTGAGCTTTCATGATGTTGAG
283120	GTGAGGTTGGGATCTGAGCTCTAGCCACCCCTGCCAGGTTGAAGAGGGCTGGAGCCCA GTGACTGCAGCTCCAGAGAGTGGCTGGTTACTATGTGGTTCTGCAGGGATGGCCTGTGT CTGGTTGGGAAGAGAGATCCTCACCCATTGTTGGCATTGAGCAGACCCACCATCC CCCACCCAGGCAAGTCTTCTTCCATGCCCTGGCCTCTAGGTCCACGCCCTTCCCC AAAGGGATTGCTCCAGCAGTGGCAGCTGAGCTTTCATGATGTTGAGCCATGTCCTGC [G, A] TTCCCCCTCTCCAGTACATTGGATATTCTTCAAAAGGGGACTCCTGAGAGTAGAGTGAC CCCAAGAAGGGAGATTCCAGCAGCCGGAGACTCATGGGCTGTGGTCTTATAGTGGCCT GGGGATTCCCCCAACCCACCTGACCCACATTCTGCCGTGTATAAGCTGTCCCCAAG

	AACACAGATGGTCCACAGGGTCGGCTGTTCATTAAGTGTACAGAGCCGGGCAAAAAA CAGGGTCTTCCTGAAGCTATGCCATAGCAAATTCCACAGGCCTCCTACCTGGGT
283749	GGCCTTTCACAGGGTATCCACGGCTCCTGACCAGCAATGCCAAGACAAGAGGGCAG AAGCTTCCTCTCCAGAACAGCAATTCCAGGCAGCTGCCCTGTGCCACACACT TCTATGCAACCTAGTGTCCAGAGACCACCTGCCACCCACTGCCATGCTGGA GTTCACTCCATGGGAACAGCATTGCAAGGTTGGGTGCCCCACTGGTGAGGTATGGA GGTCTGGCTTCACTGAGCATGCCACATGTACCACATGGTACAGCATGCCCAAGGAA [T, C] TGACATGATGGGTACACAGGCACAGCCCCTCAAGAGATCCAGACCGTCACCATGGT GCAGGGTGGCTGGATTGTCTCTCTCAGGGCAGGCCAGGGCTAGCCACTCTCCAAGGCCAC CTGCCACCTGCTTCCACAGTCATAACCGTAACAGACACTGAATGAGCCCCTCTATGTG TGGATGCTGGGCCAGGTGCTGGGGTACACCTGTAACCAAGGCCACTGCACTGGAGGA GCTCACAGTCTAACAGGGAGCCTGATGATCCACAGTGGATGAAAAGTCACAGAAATTGA
284339	ACAGAAATTGAAGGCTGGAGAAGGCTGGCAAGAGAGAACAGGGCAGCACACGGGGC CGTTAGGCAGGATTGGTGTGTTAGGCAGGGAGGCTGAAGGAGTTGGTGAAGAACACCT TGCAGTGAGAGAGTAGGACGGGGCAGCAAGAGAGGCCACTTCCCGCCACCACAT GCAGGTGCCCTCACCCCTGGGATCCAAGGCTTGGGCTTGACCAATGGCTGCTCCCTC TCAGAATCTGAGCTCCGACAGCCTGTGAGCACTTCCACATTGCCACATTACACAAC [G, T] CCTCCCTCCCTTGACTCTCGGAGTCTCCAGCCCACCCATGCCCTTACAGGAGCTT CACCTGCCACAGAATGAAGATGGTCCCTTGAGCACAGTCTGGCAGGGCACAAGTGGCT GATGGAATATTACAATGTCCTGCTCCCTTGTGTTGCAATAGAAAGTGGTCTT TGATGGACATTAAATTCCAGAGACTGCTACCTGCTACCTATCCCTTGCTCAAAATT AAATGTGGATGTGCTGTTCTGCTATAATCATCTCCTGTTGTGAAGGGAGTGCAG
284382	CAGCACACGAGGGTGGCCGTTAGGCAGGATTGGTGTGTTAGGCAGGGAGGCTGAAGGAG TTGGTGAAGAACACCTTGCACTGAGAGAGTAGGACGGGGCAGCAAGAGAGGCCACTT TCCCGCCCCACCACTGCAGGTGCCTCACCCCTGGGATCCAAGGCTTGGGCTTGACCA CATGGCCTGTCCTCTCAGAATCTGAGCTCCGACAGCCTGTGAGCACTTCCACAT TGCCCACATTACACAACGCCCTCCCTCCCTGACTCTCGGAGTCTCCAGGCCACCA [T, C] GCCTTTACAGGAGCTTCACCTGCCACAGAATGAAGATGGTCCCTTGAGCACAGTCTGG CAGGGCACAAGTGGTGAATTTACAATGTCCTGCTTCCCTTGTG AATAGAAAGTGGTCTTGATGGACATTAAATTCCAGAGACTGCTACCTGCTACCTATCT CCCTTGCTAAAAATTAAATGTTGCTGCTGCTTCTGCTATAATCATCTCCTCT GTGTGAAGGGAGTGCAGTGGAAATGAGAGAACATTAGAATCTCAAAGAGGACAATTAT
287120	CCCCATCCCAGGCTGAGTTAGAGAGGCCCTGGCAATGGATCCGGGCCCCAGCTCAGGGC TCCTTATGGCATTCTCGAACCTTCCTCGAACCTCGACCTCAGGTAATCCACCTGC CTCGGCCTCCCAAAGTGTAGGATTATAGGCGTGAGCCACCGGCCGGCTGCCACTAT CATCTCAACATCATCTGACCATCACCCACAGGGCACCAGGGAGGTGGGTGGTCC CCAAGCCTGCCCACACACCCAGGGACCTTCCCTCGAAGGAGTAAAGTATCCTGTGGA [C, T] CAAGGCTAAGGCTAAGACTGGACCCCTGCCCTGTCCGGAGAGATCTGATTCCCTCCCTAC CTGGGAGGCCAGGCCAACACACACAGTGTCAAGGCACGGAGAGTGAAGTAAGGGT GCCAGCTTACATCAGGTGATGTTAACGAGGCAAGATGAATACACCAGTGGAGATT TGGGTGAATAGCACTCCAGCCAGGGGATAGTCAATGCCAGGCCCTGGCAGGAGCATG CCCAGTGTACAGTGTGCTGAAGTCCCTGGTCCCCCATACCCCCCACCTCTTGTAA
287415	GTGGACCAAGGCTAAGGCTAAGACTGGACCCCTGCCCTGTCCGGAGAGATCTGATTCCCT CCCTACCTGGGAGGCCAGGCCAACACACACAGTGTCAAGGCACGGAGAGTGAAGGTA AGGGGTGCCAGCTTACATCAGGTGATGTTAACGAGGCAAGATGAATACACCAGGT GAGATTGGGTGAATAGCACTCCAGCCAGGGGATAGTCAATGCCAGGCCCTGGCAGG AGCATGCCAGTGTCAAGTGTGCTGAAGTCCCTGGTCCCCCATACCCCCCACCTCTTGTAA [C, T] TTGTAGTCACCTGTGTTGAAATTGCTGGCAGGTGGCAGGGCTGACTGGGTGAAGATAA GAAAGACATGAACCTGGGTGTTGACACTTCTGCCAAATGATTGGATTTTTTT TTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGCG TGATCTCGGCTACTGCAAGCTGTGCCCTCCGGTTCATACCATTCTGCCCTCAGCCT CCCGAGTAGCTGGGACCACAGGCCACCCATGCCCTGGCTGATTTTGATTTTG

287683	GTCCCCCTGGTCCCCCATACCCCCCACCTCTTGTAGTCACCTGTGGAATTGCTGG GCAGGGGGCAGGGCTGACTGGGTGAAGATAAGAAAGACATGAACCTGGGTGTTGACA CTTCTTGGCCAAAATGATGGAATTTTTTTTTTGAGACGGAGTC TCGCTCTGTACCCAGGCTGGAGTGCAGTGGCGTGAATCGCGCTCACTGCAAGCTGTGCC TCCCCGGTTCATACCATTCTCCTGCCCTAGCCTCCCAGTAGCTGGGACCACAGGCGCCC [A, G] CCACCATGCCTGGCTGATTTTGATTTGGTAGAGAAGGGGTTCACCGTGTAGCC AGGATGGCTCAATCTCTGACCTCGTATCCGCCCTCGGCCCTCCAAAGTGCTGGG ATTACAGGGGTGAGCCACACGCCGGCAATGATGGAATTGAGAAGAATAGGAGGA GATCAGAAAACAGGTCTCGGAGCCGACAGCAGACGAGGGCTGGACTACGTGAAAGAGC TCATTCATAATGGGCTAGTGTCACTCATGGAGAGGGCCAGCTTCACATCTGGCCAGCAGTGTGTTGACAGCA
287699	CATACCCCCCACCTCTTGTAGTCACCTGTGGAATTGCTGGCAGGTGGCAGGGCT GACTGGGTGAAGATAAGAAAGACATGAACCTGGGTGTTGACACTTTCTTGCCCAAAT GATTGGAATTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTACCCAG GCTGGAGTGCAGTGGCGTATCGCGCTCACTGCAAGCTGTGCCCTCCGGGTATACCCA TTCTCCTGCCCTAGCCTCCCAGTAGCTGGGACCACAGGCGCCACCACATGCCGGCT [G, A] ATTTTTGATTTTGATTTGGTAGAGAAGGGGTTCACCGTGTAGCCAGGATGGTCTCAATCT CCTGACCTCGTATCCGCCCTCGGCCCTCCAAAGTGCTGGGATTACAGGCGTGGC ACACGCCGGCAATGATGGAATTGAGAAGAATAGGAGGAAGATCAGAAAACAGGTC TCGGAGCCGACAGCAGACGAGGGCTGGACTACGTGAAAGAGCTATTCATAATGGG CTCAGTGTCACTCATGGAGAGGGCCAGCTTCACATCTGGCCAGCAGTGTGTTGACAGCA
287723	CACCTGTGTGGAATTGCTGGCAGGTGGCAGGGCTGACTGGGGTGAAGATAAGAAAGAC ATGAACCTTGGGTGTTGACACTTTCTTGCCCAAATGATTGGAATTTTTTTTTTTT TTTTTTTTGAGACGGAGTCTCGCTCTGTACCCAGGCTGGAGTGCAGTGGCGTATCTC GGCTCACTGCAAGCTGTGCCCTCCGGGTATACCAATTCTCCTGCCCTAGCCTCCCAGT AGCTGGGACCACAGGCGCCACCACATGCCGGCTGATTGGTATTGGTAGAGA [A, C] GGGGTTTCACCGTGTAGCCAGGATGGTCTCAATCTCCTGACCTCGTATCCGCCCGCCT CGGCCCTCCAAAGTGCCTGGGATTACAGGCGTGGCACCACGCCGGCAATGATTGGAA TTTGAGAAGAATAGGAGGAAGATCAGAAAACAGGTCTCGGAGCCGGCACAGCAGACGAGG GCTGGACTACGTGAAAGAGCTATTCATAATGGGCTAGTGTCACTCATGGAGAGGGC CCAGCTTCACATCTGGCCAGCAGTGTGTTGACAGCAGCTGCATCTGGGAGGTGGATTTCG
287833	TTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTACCCAGGCTGGAGTGCAGTG GCGTGATCTCGCTCACTGCAAGCTGTGCCCTCCGGGTATACCATTCTCCTGCCCTCAG CCTCCCGAGTAGCTGGGACCACAGGCGCCACCACATGCCGGCTGATTGGTATT TTGGTAGAGAAGGGGTTCACCGTGTAGCCAGGATGGTCTCAATCTCCTGACCTCGTGA TCCGCCCGCCTCGGCCCTCCAAAGTGTGGGATTACAGGCGTGGAGCCACCACGCCGGCC [G, A] ATGATTGGAATTGAGAAGAATAGGAGGAAGATCAGAAAACAGGTCTCGGAGCCGCACA GCAGACGAGGGCTGGACTACGTGAAAGAGCTATTCATAATGGGCTAGTGTCACTCA TGGAGAGGGCCAGCTTCACATCTGGCAGCAGTGTGTTGACAGCAGCTGCATCTGGGAG GTGGATTTCGGGATGATTATTCTTTCTTATATTGACTTCAACTTCAAGTGGT TCTCTGATGGGATGATTCTCTAGAATTAGACAAATGTTGAAGCTGAAAGAGGGGA
288000	ATTTTTGATTTTGATTTGGTAGAGAAGGGGTTCACCGTGTAGCCAGGATGGTCTCAATCT CCTGACCTCGTATCCGCCCTCGGCCCTCCAAAGTGCTGGGATTACAGGCGTGGC ACACGCCCGCCTCCAAAGTGATGGAATTGAGAAGAATAGGAGGAAGATCAGAAAACAGGTC TCGGAGCCGACAGCAGACGAGGGCTGGACTACGTGAAAGAGCTATTCATAATGGG CTCAGTGTCACTCATGGAGAGGGCCAGCTTCACATCTGGCCAGCAGTGTGTTGACAGCA [G, C] CTGCATCTGGGAGGTGGATTTCGGGATGATTATTCTCTTCTTATATTGAAAG CTTCCAAGTGGTCTCTGATGGGATGATTCTCTAGAATTAGACAAATGTTGAAG CTGGAAGAGGGAGGGAGCCCTTAGCTGAAGACATGTCCGGTGTGTCAGGAA TGCTTCACACAGCTAACGACTCCTATCTGACCCACAGTGAACACCAGCAGGGGGCAGGA ATGAAAAATAAAACTGGAATTGGTAACCTATGACTTGAACACACCTGCTAGGAAAAT
288050	GTCTCAATCTCCTGCCCTCGTATCCGCCCTCGGCCCTCCAAAGTGCTGGGATTACA GGCGTGGAGCCACCACGCCGGCAATGATTGGAATTGAGAAGAATAGGAGGAAGATCAG AAAACAGGTCTCGGAGCCGACAGCAGACGAGGGCTGGACTACGTGAAAGAGCTATTC

		CAATAATGGGCTAGTGTCACTCATGGAGAGGGCCAGCTTCACATCTGCCAGCAGTGT GTTGACAGCAGCTGCATCTGGGAGGTGGATTCTGGGATGATTATTTCTTTCTTTAT [A, T] TTTATTTGCACTTCCAAGTGGTCTCTGATGGCATGTATTCTTAGAATTAGACAA ATGTTGAAGCTGGAAGAGGGGAGGGAGCCTTAGCTGAAGACATGTCCGGTGGTCCA AAATGCCAGTGCTCACACAGCTAACGTCACTCCTATCTGACCCCACAGTGAAACCAGCA GGGGCAGGAATGAAAAATAAACTGGAATTGGTAACCTATGACTTTGACACACCTTG CTAGGAAAATATCTATCCTGGAAGCCAAGGCCAGCTGTGAGGGAGGAAATCTATCCAGGG
288331		TTATTTCTTTCTTTATTTATTTGCACTTCCAAGTGGTCTCTGATGGCATGTA TTTCTTCTAGAATTAGACAATGTTGAAGCTGGAAGAGGGGAGGGAGCCTTAGCTGAA GACATGTCGGTGGTGTCCAAATGCCAGTGCTCACACAGCTAACGTCACTCCTATCTG ACCCACAGTGAACACCAGCAGGGGAGGAATGAAAAATAAAACTGGAATTGGTAACC TATGACTTTGACACACCTTGCTAGGAAAATATCTATCCTGGAAGCCAAGGCCAGCTGTGA [G, A] GGAGGAAATCTATCCAGGGAGACTGAGCTGGAGGCTGCAGCTTGGGCATCTGCCTCTG GGGCTGGAAGAAGGCAAGGAAGGAAAGTTTCCCTCCCCACTCCACCTCAAGCCCTGTG GAATTCGGATGACAAAGGCAGGGAGTGAAGGCAGGGAGCCACCAAGAGGGCAGCCCTTG AGATGAAGGCTCAAAGCCTCCAAAAGCGAGTTGGACTTGGATCTGAGTGATC ATCTGCACAGAACAGCAGAGCTGAGCATCAGGCTGCCTTCCTCCAGGGTCCACGGCCCT
288438		GCCTTAGCTGAAGACATGTCCGGTGGTGTCCAAAATGCCAGTGCTCACACAGCTAAG TCACTCCTATCTGACCCACAGTGAACACCAGCAGGGGAGGAATGAAAAATAAAACTG GAATTGGTAACCTATGACTTTGACACACCTTGCTAGGAAAATATCTATCCTGGAAGCCA AGGCCAGCTGTGAGGGAGGAAATCTATCCAGGGAGACTGAGCTGGAGGCTGCAGCTTG GGCATCTGCCTCTGGGGCTGGAAGAAGGCAAGGAAGGAAAGTTTCCCTCCCCACTCCA [C, -] CTCAAGCCCTGTGGAATTGGATGACAAAGGCAGGGAGGTGAAGGCAGGGAGCCACCAAGA GGCAGCCCTGGAGATGAAGGCTCAAAAGCCTCCAAAAGCGAGTTGGACTTGG ATCTCGAGTGTACATCTGCACAGAACAGCAGAGCTGAGCATCAGGCTGCCTTCCTCCAG GGTCCACGCCCTCCCCAGTGTGTCGGGCACCAGAGGGAGCTCAGTAATTGGACAAA TGACCTCATGATTTAAGTTGGCAAAGTTCTCTCTGCAACTATTAAAGCACAGTTGC
288625		CTGTGAGGGAGGAAATCTATCCAGGGAGACTGAGCTGGAGGCTGCAGCTTGGGCATCT GCCTCTGGGGCTGGAAGAAGGCAAGGAAGGAAGTTTCCCTCCCCACTCCACCTCAAG CCCTGTGGAATTGGATGACAAAGGCAGGGAGTGAAGGCAGGGAGCCACCAAGAGGGCAG CCCTTGAGATGAAGGCTCAAAAGCCTCCAAAAGCGAGTTGGACTTGGATCTCG AGTGTACATCTGCACAGAACAGCAGAGCTGAGCATCAGGCTGCCTTCCTCCAGGGTCCA [C, T] GGCCCTTCCCCAGTGTGTCGGGCACCAGAGGGAGCTCAGTAATTGGACAAATGACTTC ATGATTTAAGTTGGCAAAGTTCTCTCTGCAACTCATTAAGCAGCTTGCTCCTGGG GTAAAGAAGGATTTAAGATCTGTGTCCTGGAATCCCTGGTTCATCTCAGGACCCAGTG GCAAGCTGGCCGGCATGGAGTGCCTCAGTAAGGGAAAGAAATGACGAAGGAAGTT TGAACAGCATGATGTACGGTGCACACACTTCCCCAAGGCCCTGGAGGCTTGCTGGGGT
288819		GGCTAAAAGCCTCCAAAAGCGAGTTGGACTTGGATCTCGAGTGTACATCTGCA CAGAACAGAGCTCTGAGCATCAGGCTGCCTTCCTCCAGGGTCCACGGCCCTCCCCAG TGCTGTGTCGGGCACCAGAGGGAGCTCAGTAATTGGACAAATGACTCATGATTTAAGTT GGCAAAGTTCTCTCTGCAACTCATTAAGCAGCTTGCTCCTGGGAAAGAAGGATT TAAGATTCTGTGTCCTGGAATCCCTGGTTCATCTCAGGACCCAGTGGCAAGCTGGCCC [A, G] GGCATGGAGTGCCTCAGTAAGGGAAAGAAATGACGAAGGAAGTGTGAAACAGCATGATG TACGGTGCACACACTTCCCCAAGGCCCTGGAGGCTCTGCCTGGGTTGTCCCACTGCCCT CTCCTGCCTGTTGTTACTCTCCACCTGACTCAGCCCTCTAGCCCAGCCACACCA CTTCAACAGCTCCAGACGTGCCCCACCATGGCTCCTGACGCCAGTCTGCTCTGG CCTGCTCTCCCTGCTTCCCTCCACACTCCTCCTACAGGTCTCATCCTGAAACAT
291274		TGGCCTTGGAAATTAAGGAGAAGAGGCCAGGCTCCAGCAACCCATTGGCCTCAACCTGG AATGGTCAGTGAGGAGGCCATGCGTATTCTCCAGGATTGAGCAAAGCCAGGCCTGGAAG TACTCATCCCCAGGGAGTCGGGAAGTGGGGCTGGAGGGCTGCCCTCTCCGCTGACACT CTGCAATCCCAGTGTATGGCGTTGCCCTGCGTGTGATGTCATCCTAGAACGCCGTCACC AGCAAGATAAAACTGTGCCATGCTGCAATGCACTCCAGGCTTACTTCCCCAAACACTGCA [T, C]

F05g4 F05g5 F05g6 F05g7

	GGTTCTGATGCTGTCAGCAAGCGCGCTGGATAAAACGAGCTGTGCTCGGTTTA ACGTTGTAAGCTTCTTTGTTCTGGCATAGACTGTGTATATGTTTGTGTTGAAG TAATCCAGCTGGAGGGCTGCTAATTAAACATAAGCAGGGCTTATTAGTCCTGTTA AAAACCTCTAACATCTAGGAGGCCAAGTATTCAAAGCAGCCTTAAGGTAGGATTA AAAAACCAAGTATTACAAATGGAATTGGGGTAGCTTCCTAAAGCCTGTGGGGCTG
292997	CATAGAAAGCAAGGAAGAGTGACCTCACTCACTGGGCCACAGCCACTGCCAGTTGCAG GGAGGAGCCTGTAGGGCCTGTAGGTAGAAAAGCTGGGTGGGCTGGAGGGGCCTGCATT CCTACTTCTGCTTACTGGTTGTTCTAAGGGCTGTAGGCCCTAGAGCTGCACCAGGCAG GTACAAGATCTGCAAGGAGAGTGAGATCAGCCTCCCTGAGTTGGGTGGTGGGGGGCGGTG GGCAGCCTTTCTGTGACCACAGACTGTCCACCCAGTGGATGGATAATAAAGACAGGT [C, T] CCCACCTTGTGCAATTAAAGATATCTTAAACATGGCACAGGGACCTTCTCAAGGCT GTGGCCCCGTCAATTGGGAAAGAAGTGGGTGGGAGTGCCTAACATTGAGCCATGT GCTTGACATTGAGCTAGGCCCTTGACCTATGATTAAATAACACAGAAAGAGTTCGTTGTTA TGTAGGATAGTGGCAAAGAATGCAGACTTAGAGTCAAACTGCTTAAGGTCAAGTGC GTCCAGCATGTATGAGCTAGTGGACCTGGGAGACAATGTCGTTCGCTGTGCCTCTGTG
296708	GGAAAGTGGGTGCTGTTGAAAACAGAGGGAGGTACTCTGAGTGCCCCTCCAAAGAGTGCC TCATGCATATGCAAGTGGATGGATGCCCTCAGGACCTGTATCTTTACTTGAGGTGATC TTCCAAGAGATTACATTAACCAGAGGTGGTGTGGACAGGACTTACAAGAAATGCAAGA TACAAGAGCCATTGCTAGCTCCAGGCAGGGGTCAAGCAGAGAGGGAGAGAAAGGGCAGTGC TGGGCCACGCTGGAGACTAGAGGGGACATCCTGGCCAAAAGAGATGAAGCCCCTTAC [A, G] TTAGAAGATGTTCAAGCTCTGCTTAAAGTGGCAATGCATATACCCCTGGGTGTGACCTG CCAGCTCACAGTCTCAAGTGCAAGCCCTGGCATTCAAGAGGTGGGTCAAGCCCACCCC ACCCCCAGGGGCACTGAGTACCCCTGAGGCCACAGAGCCTGGTATCCTCCCTCAACCCCAGC CTTACCTGGACTCCGTTTCCAGCAAAGTATTCTGCTTCAGAGTGACATCTCTTGG GCTGTTGCTATTCCACACCTTCACAAGGCCTGAAGAGGGACATCCTGTGATTGTTGGCAA
296744	CTGAGTGCCCTCCAAAGAGTGCCCTCATGCATATGCAAGTGGATGGATGCCCTCAGGAC CTGTATCTTTACTTGAGGTGATCTTCAAGAGATTACATTAACCAGAGGTGGTGTGG ACAGGACTTACAAGAAATGCAAGATAACAGAGCCATTGCTAGCTCCAGGCAGGGGTCA AGAGAGGAGAGGAAGGGCAGTGCTGGCCCACGCTGGAGACTAGAGGGGACATCCTTGG CCCCAAAGAGATGAAGCCCTTACATTAGAAGATGTTCAAGCTCTGCTTAAAGTGGGCAA [T, C] GCATATACCCCTGGGTGTGACCTGCCAGCTCACAGTCTTAAGTGCAAGCCCTGGCATT AAGAGGTGGGTCAAGCCCACCCCCACCCCCAGGGGCACTGAGTACCCCTGAGGCCACAGAGC CTGGTATCCTCCCTCAACCCCAGCCTTACCTGGACTCCCGTTTCCAGCAAAGTATTCC TGCTTCAGAGTGACATCTCTTGGCTGTGCTATTCCACACCTTCACAAGGCCTGAAGA GGGATCCTTGATTTGTTGGCAAGAAGGGCTTGTGGCAAATAGAGAGGTACTTGGAT
297548	TGTTGGTTCATATAAAGGTGAGAGTGACTGGTAGGCTTATCCTGCTGCGGAGGTGTTGT CTTGTGGGCCAAAGAGATTATTCAGAAATGCATTGGAATGTTGGAAGTATCCACAA CTCCCCACACCTGGTCATGAGAGCTATTGTTAAATTTCAGGAATTTCACAAGCAAAC AGTAGACACTGGTCGTTAAATTGCCACGTTGAGAATATTACATCATAGAAATT ACACACACATATGCTACCAAAAAGGGGAAGGGGGACATTTCCTCTAGGGAGCC [A, G] GTTGTTATACATTGACCTGCATGTCAGTGACAAGACCCCTCTCCTGCCCTGGAGTCC ACTTCTGGCAATATCTTCCCCACCCACCTCCCTCACTGAGACTCCTGATGATTCCATG GAACATGAACACAGTAGGCTCGAGCAGCTAGGGCAGGTTACAGGAACAGCAGCTCTG AGTCAGGAAAGCAGCAACATGTTCTGGGATAGTCCAAAGACATTCACCAAAACACTC TCTGAGCCTAGACCCCTGCAAAGGAGTTATGAAGGAAAAGCTCAGTGCATTAGA
298436	CCTGGAAAGGGAGGGACGTATTACCTGACCTCCAGGCCACATGTCTCATACAGAGCAATG TGGTGTGTCAGCTCCCTCGTCTGGATTATTATTTGAAAGCTTATAATCATCATTTT AAAGCAAATTAGATTCTGCTGTCGCTGGACTTGTGTTGAACCAAGACAGCCAAACATT CATCACAGCCCAGCCAAATAATAGATATGCAATAAAACGTAACACTCACAGCCATTAA AAGCCGAAATGAGTTAACCCCCACTATAAAGGCTTGACATGCAGCCACTGGAGCATA [C, T] GGGGATCAATGGTTTCAAAGTCACAGGAACCTAAACTAAATTCCATAGCTCTGGTA ATAGATTATGGTCAGCGAATTAAATAGTAATTGAAATGAGACATATAGGTACAAG TTATTACCCAGCAATCGATGGCATTAAAGAAATCTCACTAAAACCCAGAAAGTAATATC

	TCAAAACATTCAGCAACAACATTCTGGATTTAATTTAAAAACTAGAGCTGATGGGCTGG CAGAGGTTGAGGCATTAGCATTCTAGTCTCATTTGCTGGCGTCCCTGGGTA
300652	CCCACACAGGATTGCAAATAAAGTGGCCGAAGAACTGATTCACTGCCCTGGCCCTCA TTTCTCAAGGGCACAAAACAGTTAAAGCTGGAGTGGCAAGGGAGGAATTGAAAATTGG CAGACAAGGCCGGCACGGTGCTCACGCTGTAAATCCCAGCACTTGGCTAACATGGTAAACCCCCGCT AGGCAGATCATGAGGTCAAGGAGATCCAGACCACCTGGCTAACATGGTAAACCCCCGCT CTACTAAAAATAACAAAACCTAGCCGGGCTTGGTGGTGGCGCCTGTAGTCTCAGCTACT [T, C] GGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCAGAGTTGCAGTGAGTGGAGA TCGCACCACTGCACTCCAGCCTGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAA AAAGAAAATTGGGAGACAGAAGGTGTGAGTCTCACCACCTCCTCCCAGAGACAGAGTGG GGGTGCTGCTCTGACTTCAAGTACATAGAGAGGGCTCAAGGAGGCCACTTCAACGTGAG TCTCCTGAGGCCAGCGCTGGAGGACAGGGTCACAGTCAGTGTCCATTGAAATGACTTT
300653	CCACACAGGATTGCAAATAAAGTGGCCGAAGAACTGATTCACTGCCCTGGCCCTCAT TTTCTCAAGGGCACAAAACAGTTAAAGCTGGAGTGGCAAGGGAGGAATTGAAAATTGG AGACAAGGCCGGCACGGTGCTCACGCTGTAAATCCCAGCACTTGGGAGGCCAGGCA GGCAGATCATGAGGTCAAGGAGATCCAGACCACCTGGCTAACATGGTAAACCCCCGCTC TACTAAAAATAACAAAACCTAGCCGGGCTTGGTGGTGGCGCCTGTAGTCTCAGCTACTT [G, A] GGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCAGAGTTGCAGTGAGTGGAGA CGCACCACTGCACTCCAGCCTGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAA AAAGAAAATTGGGAGACAGAAGGTGTGAGTCTCACCACCTCCTCCCAGAGACAGAGTGG GGTGCCTGCTCTGACTTCAAGTACATAGAGAGGGCTCAAGGAGGCCACTTCAACGTGAGT CTCCTGAGGCCAGCGCTGGAGGACAGGGTCACAGTCAGTGTCCATTGAAATGACTTT
300747	GGCCAAGGGAGGAATTGAAAATTGGCAGACAAGGCCGGCACGGTGGCTCACGCCCTGAA TCCCAGCACTTGGGAGGCCAGGCAGGCAGATCATGAGGTCAAGGAGATCCAGACCATCC TGGCTAACATGGTAAACCCCCGCTCTACTAAAAATAACAAAACCTAGCCGGCTTGGTGA GTGGCGCCTGTAGTCTCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTAAACCCAG GAGGCAGAGTTGCAGTGAGTGGAGATCCACACTGCACCTCCAGCCTGGCAACAGAGC [G, A] AGACTCCATCTCAAAAAAAAAAAAAAGAAAATTGGGAGACAGAAGGTGTGAGTCTCAC CACCTCCTCCCAGAGACAGAGTTGGGGTGTCTGACTTCAAGTACATAGAGAGGGC TTCAAGGAGGCCACTTCCACGTGAGTCTCTGAGGCCAGCGCTGGAGGACAGGGTTCACA GTCAGTGTCCATTGAAATGACTTTGCTTGTCAATATGCCGTAGTTAGTAATAGGCTC TAGTACTCCAGTTGATAAAGTGTACACCCAGCATTTAACATTGTGTCACTGTACACTA
300776	CAAGGCCGGCACGGTGGCTCACGCTGTAAATCCCAGCACTTGGAGGCCAGGCAGGC AGATCATGAGGTCAAGGAGATCCAGACCACCTGGCTAACATGGTAAACCCCCGCTCTCA TAAAAATAACAAAACCTAGCCGGCTTGGTGGTGGCGCCTGTAGTCTCAGCTACTTGGG AGGCTGAGGCAGGAGAATGGCGTAAACCCAGGAGGCAGAGTTGCAGTGAGTGGAGATCG CACCACTGCACCTCAGCCTGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAA [A, -, G] AAAATTGGGAGACAGAAGGTGTGAGTCTCACCACTCCTCCCAGAGACAGAGTTGGGGT GCTGCTCTGACTTCAAGTACATAGAGAGGGCTCAAGGAGGCCACTTCCACGTGAGTCTC CTGAGGCCAGCGCTGGAGGACAGGGTTCACAGTCAGTGTCCATTGAAATGACTTTGCTT GTCAATATGCCGTAGTTAGTAATAGGCTTGTCAAGTGTATAAAGTGTACACCCAG AGCATTAACTTGTGTCAAGCACTGTACACTATGTCCAGTTCACAGATGAAGAAACTGAA
300874	CATGGTGAACCCCCGCTCTACTAAAAATAACAAAACCTAGCCGGCTTGGTGGTGGGCG CCTGTAGTCTCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCAG AGTTTGCACTGAGTGGAGATCGCACCACCTGCACTCCAGCCTGGCAACAGAGCGAGACTC CATCTCAAAAAAAAAAAAAAGAAAATTGGGAGACAGAAGGTGTGAGTCTCACCACCTC CTCCCAGAGACAGAGTTGGGGTGTCTGACTTCAAGTACATAGAGAGGGCTCAAGG [G, A] AGCCCACTTCCACGTGAGTCTCTGAGGCCAGCGCTGGAGGACAGGGTTCACAGTCAGTG TTCCATTGAAATGACTTTGCTTGTCAATATGCCGTAGTTAGTAATAGGCTTCTAGTACT CCAGTTGTATAAAGTGTACACCCAGCATTTAACATTGTGTCAAGCAGTACACTATGTCCAG TTTCACAGATGAAGAAAATGAAACTCAGAGAAGTAGCTAACCCAGATCACATAGTCAGG AGGTAGCAGAGTCAGGATTAGTGGGCGTGTGATTCAGAATTTCTCATGCAATTGAA

301027	TCCAGCCTGGGCAACAGAGCGAGACTCCATCTAAAAAAAAAAAAAGAAAATTGGGA GACAGAAGGTGAGTCTCACCAACCTCCAGAGACAGAGTTGGGGTGCTGTCCTGA CTTCAAGTACATAGAGAGGGCTCAAGGAGCCCACCTCCAGTGAATGACTTGCTGCAATATCG CCGTAGTTAGTAATAGGCTTTAGTACTCCAGTTGATAAAAGTGTACCCAGCATTTAAC [T, A] TGTGTCAGCACTGTACACTATGTCAGTTCACAGATGAAGAAACTGAAACTCAGAGAAG TAGCTAACCCAAGATCACATAGTCAGCAGGTAGCAGAGTCAGGATTAGTGGCGTGTCT GATTCTAGAACTTCTCATGCATTAAACAAACCTTGCAACACATCTGCATTCTCCGTTG AAGAGAATCTCACTGTCCTCACAGTGATTCCCTAAACTTCAAGCCCCACTCAATGGTC TTCTCCTCCAGGAGGTCTTCATAATTCTCTTCCACCAAGCCCCACACACCTTCC
301640	CAGCCCTGGGTTAACAAAGGCTGPGCCTGATTATTAAGAGTGTGACTCCAGAGTCCAAG CTAGACCTGGTTTGAATCTTATTCTCGCAGTCAGTAACAGTGTGACTTTGGACAGTTC CCTACCAGAGGTTAAACTGGCTTAAATTTCCTCATCTGTAAAAATGGAAATAACAACCGT GCACAGAGTTATTCAAGGACTAAAGGAGCTACTTAATGTAAAGTGTAGTAGCATGAGAC TTTGCCTATAGTAAATATTAGGCAAACATTAACCAGGTCAATGATGGCGGGGTGAGGGT [A, G] ATGATGAAGATTCTGTGTGCCCCATCACCCCTGTGCCATGCCATTGTTGCTTCCCC CTCAGGGACCACAGGCTCCCTGAGGATAGAGGCTGCTCACCCATCCTGCACCTGCTC AGCATGGGTATGGCACCCAGGAAGGCCTGGTCAGAGTTGCTATTGAGGGCATGAAGG ACATGGAGAAATACATCGGCAAGGAGAGGAGTCAGACATGCAGCTGTGGCCAGCGATC CCAGAGGGTCTCGCATGCCTCCAGGGGCTTGAGAAAACAGGGCAGAGGAAGTGCCT
302581	TGCTGGCCTACAGCCACATCCCTCGTGTGATGCAGCAGAACCTGGCTCAGCAGGCCAACGAC CAGCAGCCCCACCCGGCCAACCTCTGCCACCTCACCTGGAGGTCAAGCTTGCTGGCTGT GCAAATCTGCATACCTCTAAATAATTAGGATAGAATATGGTTGTATTCCATG CTGGGCCCTGGCAGGCTGGCAAGGCAGGCCTGGAGCAAACCGTCAGCCACAAATACC CAAGCTCCCCACTGCAGGTGAGGACAATGCGGAAGGAAGACCACCGTGGGAAGGCCAGC [G, A] GGTCCGCCCTGAAGCTACCGTAGGCTCTCTGAAAGCAGGGTGAGCTCCTGGCA GGGAGGGACAGGCCGGTCTCATCTCCATCTGTACACTTGGCGTGGAGTGGCATGGAAG AGGCAGGCCACCAACCTGAGCCTTCAGAGGAACCTGACCAGGGCAGGGAGAGCAGCACA GGGAAAGGGTGAGGAATTGAGGTTGGGAAGCATAAGAGGAGGAGAACATGAAAGATGAG GTGGTGTAGGTCAACAGCACAGAGCTACTCTGGGGAAAGCACTGGCAGAGAC
304512	CCTGACATCATAAAAGCTGAAATTTCATGCAGGAGAGAGCTCTGAATGTTAGTAA TACTCAAAAATGGCTGCAGAGGAAACAAAGAATTTCATTACAAGATATAAAATGAGAAC AATTAAATGTCACTTTTACCAAGGATAGCACCATTGTCCTCATAAAATCTCCATGTT TTGCAAAGCTTGTGAGGACTTCATGTGCAATTAGCACTGAAGGTCACTTCCGA TTTCTCAGCTTGCTCCCTGGATTGGAGGTGTTGACGGGCTTAGGATGTGAATGCCTGAG [G, C] CTTCCAGAGCTCACATCTCAAGGGAAATCTTGATGGCCAGGGTACCTCCAGGCTC AGCAGGAGGCCAGAAACCAAACCTGAGGGTAACAGGGAGTGGCCCAAGCCCACGCTC CTGGCCTGCCAGCACTGCCCTGTCTAGCGTGAGTGTGGTGGTGTGAGCTGTGAGGT ACCTAGTGATAACCAGGTGACTGAGGTGAGAGAACCCACCTGGCATGCTCTGAA AGTAAACCTGGCTGAGGTGACCGCTAGGAAGGATGCTAGGGCACAATCACCAAG
305258	GTGGGGATGTAAGAGGAACCTCACTCACACGGGACATAGTGACTGACTGGGTGAAGAGCT GTGGGCCACACTCAGGGCAGGGCACTCAGAACGCTTGGCACCAAAGTGGCCCTGATAG GAGCTGGCTGGAGAGCCAGACCCCTGGGACAGACAGTCCTGGCTAGGCAGAGAGAGGCA TTGGACACCTGAGCTACTACTGCCTGCTGAAGCAGCAGATGAGGAGTGAGCTGGAAACC CCCAGAAGATAAGCCAGTCCCCATCTGAGATTCTCAGCATCAGCAATACTGATCCCT [G, A] CTTATCGTGGCCCTTCTGAGCAGCTTTAGCCCCAAAGGCTAAGGAGCACCTCTCTA GCCAGAGGCCAGCATTCCCCACACCCCTCACTCTGGGTGAGGACCAAGGCAGGCTGAG AGCAGGAGAGTCGCCAGGTGGTGAATATAGTCAGAGGCCACAGGACTAATGAGTGTAT GCAAAGACGGCAGCAGGGCTATACAGTAACAAACGCAGGAGGACAAAAGGACAAAGGGA AAAGTAGGGGTGACCTCGAAGAGCTGGCAGGGTGGTTATGGCCAAGGCTTGTGTTCCAGC
307676	CCCCCATGATGTTGACTCTGGGTGGCAGAGGGTGGCTAGTGAGACAGACCCCTCTC TGGGAGCTGTTACCTGTGCTGGCAGATGGCAGGGCCCTGAAGTGGCATCCTTCTG AGTCCTGAAGTCCGTGTCACAGGTGTTTCAGACACATTTCACCTGGTCCCTTCA

		ATGACAGTGTGAAAGGAGCAGGATTACTGTCCCTGCAGAACCATAGCAGTTGACGCCCTCA ACCTCCTGACAAAGCTCAGGGCTCCGGCTCACAGAGAAAGCGGGGCCGAGCAGCAGA [C, G]
		CTGTTATTCAAGAACAGGTGCCCCGTGGAGGGCTGCTTCCTCTCAAACCCAAACCCATCA AATATCCACTCCTCTCAGCTCCCACAATAAATGCACCTCCAGAGACTCCTCTTGAG CCACTTCCAGCCCTGGTGTGGCCTGACCCTCAATAGTCTACCTCTGCCATGGTGC TGGAAATGTGCTGATGCTTGGCAGCAGGTTCAACATCAGGGAAACGATGGCTTGAAACA GAAGTCACATCCCTGCCCTTCATGGGTGTTGAAACACCCATCCCTCGGTAAATTGCTGA
309692		GCCCCAGCCCCCTGTAAAGCAGCCCTGCCAGGCAGCTGAGCAGATGAAATATTCCAGG CCCCAGAGTGAGCAGTGTGACTTTAAAAAGTCTGTTAGACTAGACTGACTGCACCCAA CCTGTTCTTTGAAAACAGTCTCAGAAGGCTCAGGCCCTTACAAGCTCTGTAACCTC AAATGTCTACCAAGATGCCAGGCTGCAGGGAGTAGCCCTCATCCCAGGGAGAAGTGC GTCCTTACAATGCCACAACCACAAAGGCTCTGGCCGGGCTCAGTCTCACCAAAGGGAC [T, -] TGGCCTCCTGGTCTCCAGCCCCGGTCTCTGATCCTCAGATGAAGATGTTCTGATGCCATG GGCACTTCCAGGGAGAATGCCCTGGCAAGTGGCTGCCCCCTCAGTTCTGCAAGAGGGCAG TAAGCTTCCAGAGCGAAGTCTGAGACACCCCCGCAGGTGCCACATGAATCAGCACCATGG GAGTTTCCCTGCTCTCAGATGTGACAGACATGGTCTTGAAGTCACAAAGCCAACAGGTTA GGAAGCTTTGGGCTTCAGCTCTGAGTAGGCAGGAGTTAAGGAAACGCCCAAATTGAA
311656		ATTTGAAAATGCTTGAGATCCTGCACGTAGGATACCATTGTGAAAATCAGTTTTT TGGTAACACTATTGACATGAAAATTGCTCTTTCTCCTGTAGAGAGCTTTTTCA AAATGCCTTCCATCAAAGGGTCAATTATGAACTCTGGAAGACTCCTGATACCATCAAG GTAGGCAGGTACTCCCTGCCATGTGACCTTAGAGGTGCCCTCAGAACCTACACCTGA GGCTGCAGTGTGCCACCAGCCCCAGCCCCAAGGCAGGCAGGTGAAAAGTGT [G, T] CCCTGGAGGGAGTGTGGCATTCACACAAATCTCCTGGCAGGAGCTGTTCTAGGCT GCAGAAATTCAACAGGTTAACACAGACAAAATCTTGGCCCTCACGAACTTGTATTG CAGGGAGGGACACAGATAAACACAAATGGATGCGTAGATTACACAGTGGGTAGTACTTT TGAGAACAGCAACACAGAGGGTAGGGCAGGGCAGGGTGGGCAAATTAA ATACGATAGCCCAGGGAAAGCCTCATCCAGAGGGCTATGTGAGGCCAGGTGTTGAAGGGG
311776		AAATGCCTTCCATCAAAGGGTCAATTATGAACTCTGGAAGACTCCTGATACCATCAAG GTAGGCAGGTACTCCCTGCCATGTGACCTTAGAGGTGCCCTCAGAACCTACACCTGA GGCTGCAGTGTGCCACCAGCCCCAGCCCCAAGGCAGGCAGGTGAAAAGTGT GCCCTGGAGGCAGTGTGCGGTATTACACAAATACTCCTGGCAGGAGCTGTTCTAGGC TGCAGAAATTCAACAGGTTCAACACAGACAAAATCTTGGCCCTCACGAACTTGTATT [G, A] CAGGGAGGGACACAGATAAACACAAATGGATGCGTAGATTACACAGTGGGTAGTACTTT TGAGAACAGCAACACAGAGGGTAGGGCAGGGCAGGGCAGGGTGGGCAAATTAA ATACGATAGCCCAGGGAAAGCCTCATCCAGAGGGCTATGTGAGGCCAGGTGTTGAAGGGG TGAGGGCACTGCCACGCAGTCACTGGGGGAAGATGTGCTCTAGCCCCCTAGGTAAAAAT AGGCTGATGGTAGGAGTGGTATGGGAAGCTGGGGCAGGGTCAAAGGTCTGGGGCCCC
311901		CAGTGTGCCACCAGCCCCAGCCCCAAGGCAGGCCTGCAGGTGAAAAGTCTTAGCCCT GGAGGCAGTGTGGGTCAATTACACAAATACTCCTGGCAGGAGCTGTTCTAGGCTGCAG AAATTCAACAGGTTCAACACAGACAAAATCTTGGCCCTCACGAACTTGTATTGAGG GAGGAGACACAGATAAACACAAATGGATGCGTAGATTACACAGTGGGTAGTACTTTGAG AACAGCAACACAGAGGGCAGGGTAGGGCAGGGCAGGGTGGGCAAATTAAATAC [G, A] ATAGCCCAGGGAAAGCCTCATCCAGAGGGCTATGTGAGGCCAGGTGTTGAAGGGGTGAGG GCACTGCCACGCAGTCACTGGGGGAAGATGTGCTCTAGCCCCCTAGGTAAAATAGGTC TGATGGTAGGAGTGGTATGGGAAGCTGGGGCAGGGTCAAAGGTCTGGGGCCCCCTGGA AGCTAACCTAACGACTTTGTTTCAAAATGGGTGAAACTAGATTATTGGAGGGCTCAA GTCGAGAAGGGATGTGACTGACTTTATTTAAAGGAAGCATTGGCTGCTGTTT
312574		TGGGCACGATGGTGGTGAGGAGAGGCTGGATCATGGTATATTCTGAAGGGCGGTGCCAA AGAGATTGCTGATGAGTTGCATGTGGTTATTAGAAAAGAAAGGAGTCCAGGATAACTCC AGGGTTTGGGATGAGGACTGGAAGGATGGAGTTGCCATTAACTGAGACAGAGGAGACC ATGGGTGGAGGAGGTTGGGAGGGAAAGATCAGGAGTTAATTGGGGGCATACTGAGTTG AGATGCTATCAGACATTCAAGTGGCAGTGTGAAACAGGCAGTTGGATAGACGAGGAGAGG [G, T]

FIGURE 3, page 182 of 188

312593 312694 313283 313403 313982

CTAGGCTGAAGATGGAAACTTGGAAACCCCTAGCATACTGACAGCATTAAAGCTCTGAG
 TTGGATGAGATCACTGAGTAGGTGAATGTGGATAGAGAAGAGAAGCCAAGACAGAGCCCT
 AAGAGCCTCTGATGGGAAGAGGTCAAGGAAGAGGGATGGGAGCCCCAAAAGAGAATGAGAG
 GAAGATGCCAGAGTGGTGGGAGGAACCCAGGCAAGTGCAATGTCTTAGGAGGCCAAGAGA
 AGAGTGAGTCAGGAAGCGGTCAAGCTGTCCCAGTGTCAAAGCTCAGTTAACAGATGAGGAC
 312593 GAGAGGCTGGATCATGGGTATATTCTGAAGGGCGGTGCCAAGAGAGATTGCTGATGAGTT
 GCATGTTAGAAAAAGAAGGAGTCAGGATAACTCCAGGGTTTGGCATGAGGA
 CTGGAAGGGATGGAGTTGCCATTAACACTGAGACAGAGGAGACCATGGTGGAGGGAGGTTGG
 GAGGAAGATCAGGAGTTAATTGGGGCATACTGAGTTGAGATGCTATCAGACATTCA
 AGTGGCAGTGTGAACAGGAGTTGGATAGACGAGGAGAGGGCTAGGCTGAAGATGGAAA
 [C, T]
 TTGGAACCCCTAGCATACTGACAGCATTAAAGCTCTGAGTTGGATGAGATCACTGAGT
 AGGTGAATGTGGATAGAGAAGAGAAGCCAAGACAGAGCCCTAAGAGCCTCTGATGGGAAG
 AGGTCAAGGAAGAGGAAGTGGAGCCCCAAAAGAGAATGAGAGGAAGATGCCAGGTGGTGG
 GAGGAACCCAGGCAAGTCAATGTCTTAGGAGCCAAGAGAAGAGTGAGTCAGGAAGCGG
 TCAGCTGTCCCAGTGTCAAAGCTCAGTTAACAGATGAGGACAAGAAAAGAGACTTGTAT
 312694 AGGGTTTGGGCATGAGGACTGGAAGGGATGGAGTTGCCATTAACACTGAGACAGAGGAGACC
 ATGGGTGGAGGAGGTTGGAGGGAAAGATCAGGAGTTAATTGGGGCATACTGAGTTTG
 AGATGCTATCAGACATTCAAGTGGCAGTGTGAACAGGCAAGTGGATAGACGAGGAGAGG
 GCTAGGCTGAAGATGGAAACCTTAGCATACTGACAGCATTAAAGCTCTGA
 GTTGGATGAGATCACTGAGTAGGTGAATGTGGATAGAGAAGAGAAGCCAAGACAGAGCC
 [T, G]
 AAGAGCCTCTGATGGGAAGAGGTCAAGGAAGAGGAGTGGGAGCCCCAAAAGAGAATGAGAG
 GAAGATGCCAGAGTGGTGGGAGGAACCCAGGCAAGTCAATGTCTTAGGAGCCAAGAGA
 AGAGTGAGTCAGGAAGCGGTCAAGTGTCCCAGTGTCAAAGCTCAGTTAACAGATGAGGAC
 AAAGAAAAGAGACTTGTATTAGTCATTGGAGGTCTCGGCTTGAAGGCAGTTCCACG
 CAGTGGGATGGGAGAGGGTACAAAGTCTATTGGATTGGTTAACAGATGGAGTGGGAAG
 313283 TGGAGTGGGAAGAAAGGAACGGAAACTAAATGAAGATAATCTCTGAGGAGTTTG
 CAGCAAAGAACAGAATAGGGCAGTAGCTAAAGGATAGCAGGGCCAAGAAGGCTTTGCA
 AACACACGTGAGCAACCGGCATGTCTGGATGAGCAGAGTCAGTAGAAAGGGGAAACT
 GAGGCTGTGGAAGGAAGAGGCAGTACAACCGAGTGAATTCTTGAGTAGGCAGGGGAGG
 TGGAATCCAGGGCCCAGGTTGGGATTGTCTTAGATGGATGGCGCAGACCCAGTTAAC
 [A, G]
 GGAAAGAAGCTGAGAGTGTGAACCGACAGAGATGGTGGGTGGTGTGGTGGGTGCGTG
 TGCAGACGTCTTTCTCAGTGAATCAGGAAGCAAGGTCAAGTGGCTGAGCAGGATAA
 GGGAAAGAGATGTGGAAGTCTGAGGAGGGAGAAGAAGGTGGGAACGATTGTAGGAGAG
 TGAAAGAGGGACAGATGCAGAGGAGGGAGTGAATTGGCAGTTGGGACCCACT
 TGAGGGCCCTAGTCTGAATCCAAAGTGAAGACTAGTCAGCAGGGTGGCGTTCCCCAGC
 313403 AACACACGTGAGCAACCGGCATGTCTGGATGAGCAGAGTCAGTAGAAAGGGGAAACT
 GAGGCTGTGGAAGGAAGAGGCAGTACAACCGAGTGAATTCTTGAGTAGGCAGGGGAGG
 TGGAATCCAGGGCCCAGGTTGGGATTGTCTTAGATGGATGGCGCAGACCCAGTTAAC
 GGGAAAGAACGCTGAGAGTGTGAACCGACAGAGATGGTGGGTGGTGTGGTGGGTGCGT
 GTGCAGACGTCTTTCTCAGTGAATCAGGAAGCAAGGTCAAGTGGCTGAGCAGGATA
 [A, G]
 GGGAAAGAGATGTGGAAGTCTGAGGAGGGAGAAGAAGGTGGGAACGATTGTAGGAGAG
 TGAAAGAGGGACAGATGCAGAGGAGGGAGTGAATTGGCAGTTGGGACCCACT
 TGAGGGCCCTAGTCTGAATCCAAAGTGAAGACTAGTCAGCAGGGTGGCGTTCCCCAGC
 ATGTTCAAGCAGACAGCACCCAGACAGATTTCACCAGGGCTGGAGG
 GTTGTCAAGAGAGGGTAAGGAATTGAGTGTGCAACAGTATCATTCCAGTGATTAAA
 313982 AGTATCATTCCAGTGATTAAATTCCATGGAATTCCATGGTAAGGAGGAAGCAACATCAC
 CACAGGTGACAGGCATACAGTGGTCAGTAGATTCCCGGTGGGCTGAAGAATTCTTGG
 GTCTGGATACCAGACAGAAATAACCAAGAAGAGATGGGAGGTGATCAGAGAGTAGGATGCC
 TGTAGATATGAGTTTCAGGCTGCTATAATTGTAATGACAGTGTCTGGACTCCAGGATA
 TGGCACCTGTAAGGTGGAGAGTTGGCAGGTAATCAACATTGGATTTAACACCTGGC
 [A, G]
 CTTACACAGGTGGCATATAAGGGAGACTGCTTTAGCCATAGGCTACAACACAGGAATG
 GGGTGGGGCATAACCCAGAGTCAGCAGGTGACTGCAGCAAAGAGGGCGGTGGGTGGCAC
 GTGGAGCATGCACGGGGTTTCCCTTCTCCAGTGTGAGAGCAGGTTCTGAGGCAGGGTCT

	CTTTTATGCCATTACAGAAGAGGAACGGAGGCATAAAAAGTTGCACGTGGTGGTA GAGATGAAACTCAAATCAGGGGATGTCCTCCAAAATTAAACACCTGGACACCACACAGAG
314043	ACAGGTGACAGGCATAACAGTGGTCAGTAGATTCCCGTGGGCTGAAGAATTCTGGAG TCTGGATACCAGACAGAATAAACCAAGAGATGGGAGGTGATCAGAGAGTAGGATGCCT GTAGATATGAGTTTCAGGCTGCTATAATTGTAATGACAGTGTCTGGACTCCAGGATAT GGCACCTGTAAGGTGGAGAGTTGGCAGGTAATCAACTGGATTTAAATCACCTGGCA CTTACACAGGTGGCATATAAAGGGAGACTGCTGTTAGCCATAGGCTACAACACAGGAAATG [G, A] GGTGGGGCATAACCCAGAGTCAGCAGGTACTGCAGCAAAGAGGGCGGTGGCAGC TGGAGCATGCACGGGGTTTCCCTTCTCCCTGAGAGCAGGTTCTGAGGGCAGGGCTC TTTTATGCCATTACAGAAGAGGAACGGAGGCATAAAAAGTTGCACGTGGTAG AGATGAAACTCAAATCAGGGGATGTCCTCCAAAATTAAACACCTGGACACCACACAGAGT ACCTCCAACACAGACAGGTTGACCATGAGTAAGATTGGTCCCTGGCCCCAGGGAGTCC
314103	TCTGGATACCAGACAGAATAAACCAAGAAGAGATGGGAGGTGATCAGAGAGTAGGATGCCT GTAGATATGAGTTTCAGGCTGCTATAATTGTAATGACAGTGTCTGGACTCCAGGATAT GGCACCTGTAAGGTGGAGAGTTGGCAGGTAATCAACTGGATTTAAATCACCTGGCA CTTACACAGGTGGCATATAAAGGGAGACTGCTGTTAGCCATAGGCTACAACACAGGAAATG GGTGGGGCATAACCCAGAGTCAGCAGGTACTGCAGCAAAGAGGGCGGTGGCAGC [G, A] TGGAGCATGCACGGGGTTTCCCTTCTCCCTGAGAGCAGGTTCTGAGGGCAGGGCTC TTTTATGCCATTACAGAAGAGGAACGGAGGCATAAAAAGTTGCACGTGGTAG AGATGAAACTCAAATCAGGGGATGTCCTCCAAAATTAAACACCTGGACACCACACAGAGT ACCTCCAACACAGACAGGTTGACCATGAGTAAGATTGGTCCCTGGCCCCAGGGAGTCC ACTCTCTATGGAAAACAAGACGTGTGCAAAACAGGCTGTGGACGGTTG
314832	GTCAGAGCAACAGCTAACGCTAACGCTAACGAAACAGATGGGAGGCCTCAGACCATCTAAATATGG CCAATCGTCCCGTGCCATGGACAAATAAAAGAGAAGAAATGATGCAGGAGGGAGGGATT AGAACGATAACACCAAGGGCGTGTGTTAGGGAGCTAAATGCAATCACACACAACCCCAA ATCTCAGGGCTTAGTGCAATATTATTAGTGCAAAGATTGTTCTCCATTCTGTAAAC GCTCAAGGCTGGTGTTCAGTTCTGTGCACACAGTGACATGGGACTCGGACACCTTCAG [G, T] ATGTGGTTCTCCGTCTCTGGGCCTCAGATTCTTACTGGATGCTGCATCTGGCCGG TATACAGTAGGATGGAGAGTAGAGAGGCTTGAGGAGCTTGGAGCCAGCAAAG CCCTGCACCCATCCCTCTGACACATCCACTGGCAGAACTCAGTCATATGGATGCCT CAAATCAGGAAGAGCTGGAAATGTAGTCCAGCTGTGTCACAGGAGGGATGGATGCA GGTTGAGGTGAACACAGAGCATTCTGCCAAAGACATGCAGGCCACAGAGTTGGCAT
315368	ATGCAGGTTGAGGTGAACACAGAGCATTCTCTGCCAAAGACATGCAGGCCACAGAGTTG GGCATGTCAAGGAAGCCAGGGAAAGCATGGAGGGTGTGGTCAAAGTCAGTTGAGGAGGAC CGACCTGTAGACACCCACAGGGAAAGACTGAGGACTAGGAAACTCCAGAGACTGTAGAAGA CCTGAACACAGATGCAAAAGTGGAAACAGAAAAGGGCACAAAAGAAAGATGATTCTGGG AGGCTCTGTGGCCCTTGCCTGGGGTGGCGGTGGAGAGAAGGGAGCTGAACAGTGAAAGA [C, G] CATTCGGAGAGTTGCCACAGGGCAAGATGGCCGCTGCCCTCCTCTTAGCTCTGGG GGTGGCGGAAGGCAGGGTCAAGGCCCTGTGGAGATGGAGTGGCGGGAGGTGGCTGTGACGG TCCCTCCGAGTCCATAGGCCCTGGCCCCACAGAGGGAGAAGAAAGGATCTCTTTAATT CTTCTCAGGCCCTCCACCTGACGAAGGGAAATATCACCAACATTGTTATCTCAGAAA ATACTCTCTGGAATCATAAAAGGGAAATACAGTGAAAGCTAGACCACGAAGGCTGCCCT
315431	ATGTCAAGGAAGCCAGGGAAAGCATGGAGGGTGTGGTCAAAGTCAGTTGAGGAGGACCGA CTGTAGACACCCACAGGGAAAGACTGAGGACTAGGAAACTCCAGAGACTGTAGAAGACCT GAACACAGATGCAAAAGTGGAAACAGAAAAGGGCACAAAAGAAAGATGATTCTGGGAGG CTCTGTGGCCCTTGCCTGGGGTGGCGGTGGAGAGAAGGGAGCTGAACAGTGAAAGACCA TTCCGAGAGTTGCCACAGGGCAAGATGGCCGCTGCCCTCCTCTTAGCTCTGGGG [T, C] GCCGGAAAGGCAGGGTCAAGGCCCTGTGGAGATGGAGTGGAGTGGCGGGAGGTGGCTGTGACGGTCC TCCGCAGTCCATAGGCCCTGGCCCCACAGAGGGAGAAGAAAGGATCTCTTTAATT CTCAGGCCCTCCACCTGACGAAGGGAAATATCACCAACATTGTTATCTCAGAAAATA CTCTCTGGAATCATAAAAGGGAAATACAGTGAAAGCTAGACCACGAAGGCTGCCCTAA ATCAGGAGCTTCTAAATTATCACAGTGGCGCTCTCTAATTCTCGGAATGAAAACATTAA

FIGURE 3, page 184 of 188

315993	ACAGTGGCGCTCTAATTCCCTGGAATGAAAACATTAAGATGACAATGTCCCTTAA TCAAATGCCCTGGGAGTTGCTGTAAAGAGTCAGTGGCTTTTTTCCCTGTGAGGA TTTTTTTTTGCTCTTTCACCTTATAAATAAAATATAAAATCATAACTTGTGGGGCAG GCTCTACAGAGCAAGCTGTGAACATGGATTCTGAAAATGAAGGTTTTTAATGGGA ATCATCTCATCTCAGGAAGCATGAGAGTCTCAAATGATGAGTTGCTACTTCACACTTTC [T, -] TTTTTTTTTGATTACAGGTGGGCCTCAGGCCTAGCTGTGGCACCACTGTGATGAA TCATGATGGCACACCCCAGGAGGCCAGTGGCTGACTCAACCCCTCTGGAGCGGCCACT GTGCTCAAGCTGTGCGAGGTAGGGCAGGGAGGCACAGCCTTGGGAGGTAGCATGTAGAG GCAGGAGGACTGGGCTGGAGGAAGGGCATGGTCACACCCCTGGCCCCCTCCAGGC AGGCCTGGTGGCTGAGCTTGTGCCACAAAGAGAACCCAGAGGCTAGTGCAG CCCCAGGAGGAAGGGTTGGGAGCCACGGGTAGAGAAGGCTGCATGGCAAGGTGGACTTG TTTCTGCATTCTGGTGTGAAAAGGGTCAGAGATGGAGAAAGAACTGGCAGTTGACC
316107	TGAGGATTTTTTTTGCTCTTTCACCTTATAATAAAATATAAAATCATAACTTGTGG GGCAGGCTCTACAGAGCAAGCTGTGAACATGGATTCTGAAAATGAAGGTTTTTA ATGGGAATCATCTCATCTCAGGAAGCATGAGACTCTCAAATGATGAGTTGCTACTTCAC ACTTCTTTTTTTTGATTACAGGTGGCCTCAGGCCTAGCTGTGGCACCACTG TGATGAATCATGATGGCACACCCCAGGAGGCCAGTGGCTGACTCAACCCCTCTGGAGC [A, G] GCCACTGTGCTCAAGCTGTGCGAGGTAGGGCAGGGCACAGCCTTGGGAGGTAGCAT TAGAGGGCAGGAGGACTGGGCTGGAGGAAGGGCATGGTCACACCCCTGGCCCCCT CCAGGCAGGCTGGTGGCTGAGCTTGTGCCACAAAGAGAACCCAGAGGCTAGTGCAG CCCCAGGAGGAAGGGTTGGGAGCCACGGGTAGAGAAGGCTGCATGGCAAGGTGGACTTG TTTCTGCATTCTGGTGTGAAAAGGGTCAGAGATGGAGAAAGAACTGGCAGTTGACC
316352	AATCATGATGGCACACCCCAGGAGGCCAGTGGCTGACTCAACCCCTCTGGAGCGGCCA CTGTGCTCAAGCTGTGCGAGGTAGGGCAGGGCACAGCCTTGGGAGGTAGCATGTAG AGGCAGGAGGACTGGGCTGGAGGAAGGGCATGGTCACACCCCTGGCCCCCTCCAG GCAGGCCTGGTGGCTGAGCTTGTGCCACAAAGAGAACCCAGAGGCTAGTGCAGCCCC AGGAGGAAGGGTTGGGAGCCACGGGTAGAGAAGGCTGCATGGCAAGGTGGACTTGT [C, G] TGCATTCTGGTGTGAAAAGGGTCAGAGATGGAGAAAGAACTGGCAGTTGACCCAGGC TCGGGAAGTACCAAGGGCAGCACGACCCCAAGGGCTGCCCTGGCTGCACTCCCCCT CTCTGCGATCTCCATCTGCCAGTGGCCATCTCCATGGGCTGGTGGAGACATCAAGGC GGCAGGGCCAAGTCTGGAGCTGCTGGACAGTTGTAACCAAGTAGGAAAGCAGTCTCT GATATTAGAAAAGTGTCAAGGCTTAGGTCTGAAATCGCAGGCTGCTGATTAAAAC
319520	ATATTGGACAGATAGAGAAGGAAGGGCTCTACTTCAAGGCAAGAGAAAGGCTCAGAAG AAGGATTAGGAGTGGGATTCAAGAATATAATTCCCTCAGTATAAGTACCTGCTAAAGG TGGCAGATCAATAGCGGGCAGTTGGGTTGTGACCTCATTTCAGCTGCTGCCCTGCTT TGCCCTGAGGCTCCAGACCTCGCAGCCCCAAGGTCCCCTGTTATCCCAGTTCCAAAG GGCAGCTGGATCTGACCTGCTCTGAGAAATGCTGCATGAAAGAGGGCATAACTCT [G, A] TGGAGCTCCCTGCCAAGGGCTCCTCCAGGCCAGGCTGTGCCCTCTGAGCCCAGGCTGC AGAGACGGGAGGATGGCACAGCACCCTCTAGGTATGGAGAGCAGCCTCTGACAGACC CTCACCTCAGTCTGTAGAAAGAGAGCAGACAGTTCTGTAACCGAGGAATAATTCT CAAGGTGGACATGCGACCCAGAAAATGGAGTGTGCTTAGTCCCAGATGCCCTCCA GCGCTGTCAGCTGCTGACAGGGCTGCCACTCGGATAGGTAGTCAGTCAAGCGAGGCCAG
319699	TTGCCCTGAGGCTCCAGACCTCGCAGCCCCAAGGTTCCACTGTTATCCCAGTTCCAA GGCAGCTGGGATCTGACCTTGTCCCTGAGAAATGCTGCATGAAAGAGGGCATAACACT TGTGGAGCTCCCTGCCAAGGGCTCCTCCAGGCCAGGCTGTGCCCTCTGAGCCCAGGCT GCAGAGACGGGAGGATGGCACAGCACCCTCTAGGTATGGAGAGCAGCCTCTGACAGA CCCTCACCTCAGTCTGTAGAAAGAGAGCAGACAGTTCTGTAACCGAGGAATAATT [A, C] TCAAGGTGGACATGCGACCCAGAAAATGGAGTGTGCTTAGTCCCAGATGCCCTCC AGCGCTGTCAGCTGCTGACAGGGCTGCCACTCGGATAGGTAGTCAGTCAAGCGAGGCCAG GAGCCCTTTCACAGGCACCTGGGGCTGGGTACCTTCAGTCCCAGGACACAAAG GCTCTCCCTAGGCAGGCTGTGCTCCAGCATCCAGGGCAAGGGCTCAGGCAGAGGCTCT TTAAAGCTGGTGTTCATCTGATGAGTTCTGCTGGGGCTCTGAGCATTGTGACT
320863	ATTAATCCAGGCAAGTCCAAGTCCAAAACAAACAGCCTTCTGCTTCCGTGAGGCAG GAGATTGGGATAAGGCATGAGGGAGAGATGCGAGAGTGTGCTGAGTGTGGCAGTCATGGA AGGCAGGCTCCCTGGAGGAGGTGGTGTGAGCATTGAAATGGCATCCAGAAGGATGTGTG

	TGATTGGAGTAAGGGCAGGAAGAACAGTGGGAGCAAAGAACACTGAGGCTGGAGGA CACAGAATACATTCAAGAAACGGCACTGTTGTCATCCTAGAGCAGGTGCAGGGCAGCAGG [G, A] GGCAGTGGGACCACAGTGTCAAGTCAGTCAGACTATAAGAGGCTGGAATGAGAGGCCAA GAACAGCCATCCAAAGCTCTGGCAGGGGAGAAGCAGATCCAGGGCTGAGCTGGTTGGGA TGCCTATGCCTGCATCTTAGGAAATGAAATGACCCAACGTGCAGCTCCATCATAGGCCAG CACCCAGGTAGCATCCCGAGCCACTGCTGATTAAAGAGATGTGCATGCAGCTGTCAATTCA CAGACTCCCAGCAATAGTGTTCACCTCCCGTAGAATAGTCACCTACAAAGCATTTTTT
321530	CACTGCAAGCCCCACCTCCTGGTTCATGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCT GGGACTACAGGGCGCCGCCACACACCTGGCTAATTTTTGTTAGTTAGTAGAGACGGA GTTTACCCATGTTAGCCAGGTGGTCTCGATCTCTGACCTTGTTGATCCACCCGCCCTCAG CCTCCCAAAGTGTGAAATTACAGGCGTGAGGCCACCGCGTCCGCCAACCTACAAAGCTT TAACACACTGAAAGCAGAGGATTCTGCCTGAAAAGCACTGGTATTGGACTGTGAACA [T, C] AAAGATGGGAATGCAACCAGGCAATGCAGGGCTGCCTAGAGTCAGGGTTGTTTTAA GTAAGAGAGACAGAAATGATATTACAATCAGTACTCTCAAATTAGGTTTCTTTTATG GGATTGAAAATTCTCCATTCAAGCCCATGGAGAGATGTGGTCTGAGGGCAGCATTGAGG CGATCAGTGTGCTTAAACTCCAGACGCTCACAGACACTTAAAGTAAAACAGAGAGA AACAAAATTGTTCCAAAAGCAGCAAAGAAGGCTGATCTGCTGTTAGGATCCTTGAG
323257	GCAGGACATGCCCTTGGCCTTGGAGGAAACAGGGAAATCATTCTTGGAACTGTTAAGA GGAAAATGTGAGAATTCAAGATCCTACTCCATGGCAGTTCTGAGGGTAATATTTAGGGC AAGGGAAATGGGCACCTTCTGCCAAGTCAGAGAGAACCTTGGTACCAAGAGGCC TTCAAGGAAAGGCTAGGGTCCCAGCCAGCTGGCACCTGACTGAACCTCACTGAGCTGA TGTGTTCCCCTATTCTGCCAGGACACTGGTCAAAGCTGAAATATTACTATTACAAG [A, G] TTTAGCAGTGCCACCTCATCAAGATTCCATTGCTTCTCGCTTCTCTCATTGT TTACAAATATTCTTGACTTCTCTCTCTTCAAACAGTGCCTGCCATTATAATC AGAAGACAAATAAACTTTGTGCAAATCTCCCTGTTCCCTCATGAAACTAGCCAGGCATAGA AGGGGCAACACCAAGGGTGTGCCTATTGACTCAATGCCATGTTGACCACCTCAGGGC CGCCCAGTGGGCTTCCATAGCATCACCTATCATCTGTGCCACTTACTCCAGAGCCTT
323754	GTGTGCCTATTGACTCAATGCCATGTTTGACCACCTCAGGGCCGCCAGTGGGCTTC CATAGCATCACCTATCATCTTGCTGCCACTTACTCCAGAGCCTCGCTGGCTCCCTATT CCCACCTCACCAAGTCTGAGCACCTCTGCTGCTGTTAGGTCTCGTGCCTAGCCAGTC CTTTCACAGCACCTGACACCCACTCAGCCTGTCTTCCCGTGGGTCTGTTACTCCC CTACCCCTACCCAGGACTTCCCAAGCAAAAGCTAATATGTTAAGGAAGGCAAGGACC [A, G] TGTCAAGATATCCTCCAGCATCTGACACCGAGCATCTCTCAAATTGAGACAGTTATAA TCATTCAAAAGTAGAGAAATGCCAAGAACACTGGCCTGTGGGGGTTCATCCAAATCTTGA TGCCTGAATCTCTCCAGGAGGGTGTGCCAAGGACTTAAGAAAAGAGCGAGTGTCCAAG GCAGAGTCCAAGGAGTGGTCCAGAGCAGCACATGCCAGGGCTGTGCTGCACAGGTTG AGTGGGAAGAGGAAGAGGATAATGGCAAGGATGTAGAGGGAGGAGACTGCCGGGCAGGC
324544	TTGATTAGCAGCAGTCTGACCTGGGAGCATGGACTGTGAGAATTGCTCCTATGATGTG CTTGGAGTTCAAATTGCAAGATGGTCTCTGAGGTTGGGCTGGATCAGCGTGAGAGA AGGGACAGTGTGGGAGCCCCCTCCACATCTGTGGAGATAACATCTTGCTTCTACAT GTGTCTCCTGGCTTGTGCTGATATGGTTGGTTCATGCCCCACCCAAATCTCATGTT GAATTGTAATTCTCAATGCTGGGGAGGGACCTGATGGAGGTGATTGGATCATGGATC [A, G] AATTCTCCCTGCCACTCTCATGATAGTGTAGTTCCACAAGATCTGATGTTCAAAGT GTGTAGCACTCCGCCCTTGCTCTTCTCTGCCATATTAAGACATGCTTGCT TCCCTCTGCCCTCTGCCATGATTGTAAGTTCTGAGGGCTCCAGCCATGCTTCTGT ACAGCCTGAGGAACGTGAATCAACTAAATCTCTGTTCTCATCAATAACCCAGTCTCAG GTAGTTTTATAGCAGTGTGAGAACAGACCAATATATTGCCCTACACCCATGCAGTGCT
324599	ATGTGCTTGGAGTTCAAATTGCAAGATGGCTCTGAGGTTGGGCTGGATCAGCGTG AGAGAAGGGACAGTGTGGCAGCCCCCTCCACATCTGTGGAGATAACATCTGCCCTC TACATGTGTCTCTGGCTTGTGCTGATATGGTTGGTCCATGCCCCACCCAAATCTC ATGGTGAATTGTAATTCTCAATGCTGGGGAGGGACCTGATGGGAGGTGATTGGATCATG GGATCAAATTCCCCCTGCCACTCTCATGATAGTGTAGTTCCACAAGATCTGATGTTT [A, C]

AATGTTCTTGTGCAAGCCTTGGTATGCATCTCTGTCAAGAAATCTATCTTCGCATCAA
ATTGCTGGTGGAGAATATGCACAGAGTAACAAGATATTGATGCCTGGTTAACATGCT

331823 CGCGCCCAGCCTATTACCCTGTCTTCTAATATCACAGAGTAATTTCGCCTATGTTGAA
CTTTGTATCAACGGACTCATACAGAATATGATCTCTGTGTCCTGGCTGCTTGCTTCAAAC
ATGTCGTGAGATTGCTTGTCACTCATTATAGCAGGAGTTGTTCCAG
GATGATAATATTCTGTGTAAGAATATGCCACCTGGGTGATGTACAGCTTGTGTTCCAG
TTTGGGAAAATTATAAATAATGGTCTATGAATGTTCTGTGCAAGCCTTGGTATGCAT
[C, T]
TCTGTCAGAAATCTATCTTCGCATCAAATTGCTGGTGGAGAATATGCACAGAGTAACA
AGATATTGATGCCTGGTTAAACATGCTCCTGTTATAAGAGTAGACACTTAACCATGGT
GGGGAGTGGGGAGGGATGCCCTTGGCCCCAAGGTACCCATTGAGGCCAGCTGGGACA
CAGTCCTGAGGGTCAATTATATTCCCCCACCATGCCCTGAGCACCCCTGGGTGTTCTA
CAGGCCCTCCCTGCCCTGGGTCAAGGACACTTTCAAGAATTGCCATAAGGCTAAGG

334749 CAACTCCATCAGCCCCAGCCACCGCCCTGCCATGTTGAGAGTTGCCAAAGAAAAATGA
ACACTTGGGCCTCAAAGTGCAGGCATTAATATCCTAAGTGTCTCATGGAAAGACTTG
TTCCCCAAGGAGAGTAAATCTTCCTGTTGGGATGCAGCAGGCTAAGGACCAAGCTGACT
CTCTGAGCTCAGTAATCAGGCTAGTCTCCTGCTGGAGGACAGAAGGGAACTCCGCTGTG
TGTCAAGCACCTCCTGCATGCCCTGACTCATGCTTGGGGAGGACGGTGGAGTGAGAGC
[A, G]
GATATGGACCCCTCCCTGGGAGAGCTCCCTGTTATCCCTGGAGTGGGTTACTCCTCCGC
TGCCCTGAAACAGTAGGTTCCCTCAGCTACGCAAAGGCTGTAACACAGATACTGGT
CACAAGCATCTTGCAGCTGTTCTTCCACCAAGCCTGGGCTGCTGGGTCCCTGAAAC
CTCAGGGTAAGTCAAGCCTCAGAGGTCACTCAGTAGCCAGTATCCACTGTTCTGCACCCCT
TGGGAGAACAGGCTGCCACTTCTCAGTAAGATCCCCAGGTAAACCT